



State of New Jersey

CHRIS CHRISTIE
Governor

KIM GUADAGNO
Lt. Governor

DEPARTMENT OF ENVIRONMENTAL PROTECTION
Mail Code – 401-02B
Division of Water Quality
Bureau of Surface Water Permitting
P.O. Box 420 – 401 E State St
Trenton, NJ 08625-0420
Phone: (609) 292-4860 / Fax: (609) 984-7938

BOB MARTIN
Commissioner

CERTIFIED MAIL
RETURN RECEIPT REQUESTED
7011 2970 0003 7284 2108

October 27, 2016

David Erfert, Refinery Manager
Phillips 66 Company
1400 Park Avenue
Linden, NJ 07036

Re: Final Surface Water Minor Modification Permit Action
Category: B - Industrial Wastewater
NJPDES Permit No. NJ0001511
PHILLIPS 66 CO
Linden City, Union County

Dear Mr. Erfert:

Enclosed is a **final** New Jersey Pollutant Discharge Elimination System (NJPDES) permit action identified above which has been issued in accordance with N.J.A.C. 7:14A. This action modifies the following permit conditions:

Changes the units for “Flow, In Conduit or Thru Treatment Plant” for Outfalls DSN 003A, DSN 004A, and DSN005A from gallons per day (GPD) to million gallons per day (MGD). This is necessary so the reported flow values have eight or less characters as required by the United States Environmental Protection Agency’s (EPA) data collection system. This will allow the Department’s data collection system to upload this flow data to the EPA collection system.

This permit package contains those sections of the permit that are directly affected by this permit action (i.e Part III)

Questions or comments regarding the final action should be addressed to Robert Hall at (609) 292-4860.

Sincerely,

Melisse Carasia Auriti, Section Chief
Bureau of Surface Water Permitting

Enclosures

cc: Permit Distribution List
Masterfile #: 962; PI #: 46318



NEW JERSEY POLLUTANT DISCHARGE ELIMINATION SYSTEM

The New Jersey Department of Environmental Protection hereby grants you a NJPDES permit for the facility/activity named in this document. This permit is the regulatory mechanism used by the Department to help ensure your discharge will not harm the environment. By complying with the terms and conditions specified, you are assuming an important role in protecting New Jersey's valuable water resources. Your acceptance of this permit is an agreement to conform with all of its provisions when constructing, installing, modifying, or operating any facility for the collection, treatment, or discharge of pollutants to waters of the state. If you have any questions about this document, please feel free to contact the Department representative listed in the permit cover letter. Your cooperation in helping us protect and safeguard our state's environment is appreciated.

Permit Number: NJ0001511

Final: Surface Water Minor Mod Permit Action

Permittee:

Phillips 66 Company
1400 Park Ave
Linden, NJ 07036

Co-Permittees:

ExxonMobil Corp.
P.O. Box 728
Linden, NJ 07036

Infineum USA LP
1900 E. Linden Ave
Linden, NJ 07036

Property Owner:

Phillips 66 Company
1400 Park Ave
Linden, NJ 07036

Location Of Activity:

Phillips 66 Company
1400 Park Ave
Linden, Union County

Authorization(s) Covered Under This Approval	Issuance Date	Effective Date	Expiration Date
B - Industrial Wastewater - Renewal	07/11/2013	10/01/2013	09/30/2018
B - Industrial Wastewater – Minor Mod (Addition of Part III for DSN 003A, DSN 004A, and DSN 005A)	07/16/2013	10/01/2013	09/30/2018
B - Industrial Wastewater – Minor Mod (Change of Units for Flow for DSN 003A, DSN 004A, and DSN 005A)	10/27/2016	10/1/2016	09/30/2018

By Authority of:

Commissioner's Office

DEP AUTHORIZATION

Melisse Carasia Auriti, Section Chief
Bureau of Surface Water Permitting
Division of Water Quality

(Terms, conditions and provisions attached hereto)

Division of Water Quality

PART II

GENERAL REQUIREMENTS: DISCHARGE CATEGORIES

A. Additional Requirements Incorporated By Reference

1. Requirements for Discharges to Surface Waters

- a. In addition to conditions in Part I of this permit, the conditions in this section are applicable to activities at the permitted location and are incorporated by reference. The permittee is required to comply with the regulations which are in effect as of the effective date of the final permit.
 - i. Surface Water Quality Standards N.J.A.C. 7:9B-1
 - ii. Water Quality Management Planning Regulations N.J.A.C. 7:15

B. General Conditions

1. Scope

- a. The issuance of this permit shall not be considered as a waiver of any applicable federal, state, and local rules, regulations and ordinances.

2. Permit Renewal Requirement

- a. Permit conditions remain in effect and enforceable until and unless the permit is modified, renewed or revoked by the Department.
- b. Submit a complete permit renewal application: 180 days before the Expiration Date.

3. Notification of Non-Compliance

- a. The permittee shall notify the Department of all non-compliance when required in accordance with N.J.A.C. 7:14A-6.10 by contacting the DEP HOTLINE at 1-877-WARNDEP (1-877-927-6337).
- b. The permittee shall submit a written report as required by N.J.A.C. 7:14A-6.10 within five days.

4. Notification of Changes

- a. The permittee shall give written notification to the Department of any planned physical or operational alterations or additions to the permitted facility when the alteration is expected to result in a significant change in the permittee's discharge and/or residuals use or disposal practices including the cessation of discharge in accordance with N.J.A.C. 7:14A-6.7.
- b. Prior to any change in ownership, the current permittee shall comply with the requirements of N.J.A.C. 7:14A-16.2, pertaining to the notification of change in ownership.

5. Access to Information

- a. The permittee shall allow an authorized representative of the Department, upon the presentation of credentials, to enter upon a person's premises, for purposes of inspection, and to access / copy any records that must be kept under the conditions of this permit.

6. Operator Certification

- a. Pursuant to N.J.A.C. 7:10A-1.1 et seq. every wastewater system not exempt pursuant to N.J.A.C. 7:10A-1.1(b) requires a licensed operator. The operator of a system shall meet the Department's requirements pursuant to N.J.A.C. 7:10A-1.1 and any amendments. The name of the proposed operator, where required shall be submitted to the Department at the address below, in order that his/her qualifications may be determined prior to initiating operation of the treatment works.

- i. Notifications shall be submitted to:
NJDEP
Examination and Licensing Unit
Mailcode 401-02B
P.O. Box 420
Trenton, New Jersey 08625-0420
(609)777-1012.

- b. The permittee shall notify the Department of any changes in licensed operator within two weeks of the change.

7. Operation Restrictions

- a. The operation of a waste treatment or disposal facility shall at no time create: (a) a discharge, except as authorized by the Department in the manner and location specified in Part III of this permit; (b) any discharge to the waters of the state or any standing or ponded condition for water or waste, except as specifically authorized by a valid NJPDES permit.

8. Residuals Management

- a. The permittee shall comply with land-based sludge management criteria and shall conform with the requirements for the management of residuals and grit and screenings under N.J.A.C. 7:14A-6.15(a), which includes:
 - i. Standards for the Use or Disposal of Residual, N.J.A.C. 7:14A-20;
 - ii. Section 405 of the Federal Act governing the disposal of sludge from treatment works treating domestic sewage;
 - iii. The Solid Waste Management Act, N.J.S.A. 13:1E-1 et seq., and the Solid Waste Management Rules, N.J.A.C. 7:26;
 - iv. The Sludge Quality Assurance Regulations, N.J.A.C. 7:14C;
 - v. The Statewide Sludge Management Plan promulgated pursuant to the Water Quality Planning Act, N.J.S.A. 58:11A-1 et seq., and the Solid Waste Management Act, N.J.S.A. 13:1E-1 et seq.; and
 - vi. The provisions concerning disposal of sewage sludge and septage in sanitary landfills set forth at N.J.S.A. 13:1E-42 and the Statewide Sludge Management Plan.
 - vii. Residual that is disposed in a municipal solid waste landfill unit shall meet the requirements in 40 CFR Part 258 and/or N.J.A.C. 7:26 concerning the quality of residual disposed in a municipal solid waste landfill unit. (That is, passes the Toxicity Characteristic Leaching Procedure and does not contain "free liquids" as defined at N.J.A.C. 7:14A-1.2.)

- b. If any applicable standard for residual use or disposal is promulgated under section 405(d) of the Federal Act and Sections 4 and 6 of the State Act and that standard is more stringent than any limitation on the pollutant or practice in the permit, the Department may modify or revoke and reissue the permit to conform to the standard for residual use or disposal.
- c. The permittee shall make provisions for storage, or some other approved alternative management strategy, for anticipated downtimes at a primary residual management alternative. The permittee shall not be permitted to store residual beyond the capacity of the structural treatment and storage components of the treatment works. N.J.A.C. 7:14A-20.8(a) and N.J.A.C. 7:26 provide for the temporary storage of residuals for periods not exceeding six months, provided such storage does not cause pollutants to enter surface or ground waters of the State. The storage of residual for more than six months is not authorized under this permit. However, this prohibition does not apply to residual that remains on the land for longer than six months when the person who prepares the residual demonstrates that the land on which the residual remains is not a surface disposal site or landfill. The demonstration shall explain why residual must remain on the land for longer than six months prior to final use or disposal, discuss the approximate time period during which the residual shall be used or disposed and provide documentation of ultimate residual management arrangements. Said demonstration shall be in writing, be kept on file by the person who prepares residual, and submitted to the Department upon request.
- d. The permittee shall comply with the appropriate adopted District Solid Waste or Sludge Management Plan (which by definition in N.J.A.C. 7:14A-1.2 includes Generator Sludge Management Plans), unless otherwise specifically exempted by the Department.
- e. The preparer must notify and provide information necessary to comply with the N.J.A.C. 7:14A-20 land application requirements to the person who applies bulk residual to the land. This shall include, but not be limited to, the applicable recordkeeping requirements and certification statements of 40 CFR 503.17 as referenced at N.J.A.C 7:14A-20.7(j).
- f. The preparer who provides biosolids to another person who further prepares the biosolids for application to the land must provide this person with notification and information necessary to comply with the N.J.A.C. 7:14A-20 land application requirements.
- g. Any person who prepares bulk residual in New Jersey that is applied to land in a State other than New Jersey shall comply with the requirement at N.J.A.C. 7:14A-20.7(b)1.ix to submit to the Department written proof of compliance with or satisfaction of all applicable statutes, regulations, and guidelines of the state in which land application will occur.

PART III

LIMITS AND MONITORING REQUIREMENTS

MONITORED LOCATION GROUP: Cooling Water Ditches

Monitored Location Group Members

003A SW Outfall DSN 003A, 004A SW Outfall DSN 004A, 005A SW Outfall DSN 005A

Surface Water DMR Reporting Requirements:

Submit a Monthly DMR; within twenty-five days after the end of every month beginning from the effective date of the permit (EDP).

Comments:

Grab sampling shall be conducted during dry weather.

Table III - A - 1: Surface Water DMR Limits and Monitoring Requirements

PHASE: Final PHASE Start Date: 10/01/2016 PHASE End Date:

Parameter	Sample Point	Limit	Units	Limit	Units	Limit	Units	Frequency	Sample Type
Flow, In Conduit or Thru Treatment Plant	Effluent Gross Value	REPORT Monthly Average	MGD	*****	*****	*****	*****	1/Month	Calculated
January thru December	QL	***	Daily Maximum	***	***	***	***		
pH	Effluent Gross Value	*****	*****	REPORT Daily Minimum	*****	REPORT Daily Maximum	SU	1/Month	Grab
January thru December	QL	***	***	***	*****	*****			
Solids, Total Suspended	Effluent Gross Value	*****	*****	*****	*****	REPORT Monthly Average	MGL	1/Month	Grab
January thru December	QL	***	***	***	*****	*****			
IC25 State 7day Ctr Mysid Bahia	Effluent Gross Value	*****	*****	REPORT Report Per Minimum	*****	*****	%EFFL	1/6 Months	Composite
January thru December	QL	***	***	***	*****	*****			
Chlorine Produced Oxidants	Effluent Gross Value	*****	*****	*****	*****	REPORT Monthly Average	MGL	1/Month	Grab
January thru December	RQL	***	***	***	*****	*****	0.1	0.1	

Surface Water DMR Reporting Requirements:

Submit a Monthly DMR; within twenty-five days after the end of every month beginning from the effective date of the permit (EDP).

Comments:

Grab sampling shall be conducted during dry weather.

Table III - A - 1: Surface Water DMR Limits and Monitoring Requirements

Parameter	Sample Point	Limit	Units	Limit	Units	Limit	Units	Frequency	Sample Type
Temperature, °C	Effluent Gross Value	*****		*****		REPORT Monthly Average	DEG.C	1/Month	Grab
	QL	***		***		***	***	***	
January thru December Petroleum Hydrocarbons	Effluent Gross Value	*****		*****		REPORT Monthly Average	MG/L	1/Month	Grab
	QL	***		***		***	***	***	
January thru December Carbon, Tot Organic (TOC)	Effluent Gross Value	*****		*****		REPORT Monthly Average	MG/L	1/Month	Grab
	QL	***		***		***	***	***	
January thru December Nickel, Total Recoverable	Effluent Gross Value	*****		*****		REPORT Monthly Average	UG/L	1/Month	Grab
	RQL	***		***		***	***	***	
January thru December Zinc, Total Recoverable	Effluent Gross Value	*****		*****		REPORT Monthly Average	UG/L	1/Month	Grab
	RQL	***		***		***	***	***	
January thru December Lead, Total Recoverable	Effluent Gross Value	*****		*****		REPORT Monthly Average	UG/L	1/Month	Grab
	RQL	***		***		***	***	***	
January thru December Copper, Total Recoverable	Effluent Gross Value	*****		*****		REPORT Monthly Average	UG/L	1/Month	Grab
	RQL	***		***		***	***	***	

Surface Water DMR Reporting Requirements:

Submit a Monthly DMR; within twenty-five days after the end of every month beginning from the effective date of the permit (EDP).

Comments:

Grab sampling shall be conducted during dry weather.

Table III - A - 1: Surface Water DMR Limits and Monitoring Requirements

PHASE: Final **PHASE Start Date:** 10/01/2016 **PHASE End Date:**

Parameter	Sample Point	Limit	Units	Limit	Units	Limit	Units	Frequency	Sample Type
Mercury Total Recoverable	Effluent Gross Value	*****	*****	*****	*****	REPORT Monthly Average	UG/L	1/Month	Grab
January thru December	RQL	***	***	***	***	1.0	1.0		
Bis(2-ethylhexyl) phthalate	Effluent Gross Value	*****	*****	*****	*****	REPORT Monthly Average	UG/L	1/Quarter	Grab
January thru December	RQL	***	***	***	***	30	30		
Benzene	Effluent Gross Value	*****	*****	*****	*****	REPORT Monthly Average	UG/L	1/Month	Grab
January thru December	RQL	***	***	***	***	7	7		

Surface Water WCR - Semi Annual Reporting Requirements:

Submit a Semi-Annual WCR: within twenty-five days after the end of every 6 month monitoring period beginning from the effective date of the permit (EDP).

Comments:

Grab sampling shall be conducted during dry weather.

Table III - A - 2: Surface Water WCR - Semi Annual Limits and Monitoring Requirements

PHASE: Final PHASE Start Date: 10/01/2016 PHASE End Date:

Parameter	Sample Point	Compliance Quantity	Units	Sample Type	Monitoring Period
Manganese, Total Recoverable	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
Chromium Trivalent (as Cr) Total Recov.	Effluent Gross Value	REPORT RQL = 8	UG/L	Grab	January thru December
Cyanide, Total (as CN)	Effluent Gross Value	REPORT RQL = 40	UG/L	Grab	January thru December
Arsenic, Total Recoverable (as As)	Effluent Gross Value	REPORT RQL = 8	UG/L	Grab	January thru December
Selenium, Total Recoverable	Effluent Gross Value	REPORT RQL = 10	UG/L	Grab	January thru December
Thallium, Total Recoverable	Effluent Gross Value	REPORT RQL = 10	UG/L	Grab	January thru December
Beryllium, Total Recoverable (as Be)	Effluent Gross Value	REPORT RQL = 20	UG/L	Grab	January thru December
Barium, Total Recoverable (as Ba)	Effluent Gross Value	REPORT RQL = 20	UG/L	Grab	January thru December
Silver, Total Recoverable	Effluent Gross Value	REPORT RQL = 2	UG/L	Grab	January thru December
Cadmium, Total Recoverable	Effluent Gross Value	REPORT RQL = 4	UG/L	Grab	January thru December
Chromium, Total Recoverable	Effluent Gross Value	REPORT RQL = 10	UG/L	Grab	January thru December
Chromium, Hexavalent Dissolved (as Cr)	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
Antimony, Total Recoverable	Effluent Gross Value	REPORT RQL = 20	UG/L	Grab	January thru December
Acenaphthylene	Effluent Gross Value	REPORT RQL = 10	UG/L	Grab	January thru December
Acenaphthene	Effluent Gross Value	REPORT RQL = 9.5	UG/L	Grab	January thru December

Surface Water WCR - Semi Annual Reporting Requirements:

Submit a Semi-Annual WCR, within twenty-five days after the end of every 6 month monitoring period beginning from the effective date of the permit (EDP).

Comments:

Grab sampling shall be conducted during dry weather.

Table III - A - 2: Surface Water WCR - Semi Annual Limits and Monitoring Requirements
PHASE: Final **PHASE Start Date:** 10/01/2016 **PHASE End Date:**

Parameter	Sample Point	Compliance Quantity	Units	Sample Type	Monitoring Period
Anthracene	Effluent Gross Value	REPORT RQL = 10	UG/L	Grab	January thru December
Benzo(b)fluoranthene (3,4-benzo)	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
Benzo(k)fluoranthene	Effluent Gross Value	REPORT RQL = 20	UG/L	Grab	January thru December
Benzo(a)pyrene	Effluent Gross Value	REPORT RQL = 20	UG/L	Grab	January thru December
Bis(2-chloroethyl) ether	Effluent Gross Value	REPORT RQL = 10	UG/L	Grab	January thru December
Bis(2-chloroethoxy) methane	Effluent Gross Value	REPORT RQL = 26.5	UG/L	Grab	January thru December
Bis (2-chloroisobutyl) ether	Effluent Gross Value	REPORT RQL = 10	UG/L	Grab	January thru December
Butyl benzyl phthalate	Effluent Gross Value	REPORT RQL = 20	UG/L	Grab	January thru December
Chrysene	Effluent Gross Value	REPORT RQL = 20	UG/L	Grab	January thru December
Diethyl phthalate	Effluent Gross Value	REPORT RQL = 10	UG/L	Grab	January thru December
Dimethyl phthalate	Effluent Gross Value	REPORT RQL = 10	UG/L	Grab	January thru December
1,2-Diphenyl- hydrazine	Effluent Gross Value	REPORT RQL = 10	UG/L	Grab	January thru December
Fluoranthene	Effluent Gross Value	REPORT RQL = 10	UG/L	Grab	January thru December
Fluorene	Effluent Gross Value	REPORT RQL = 10	UG/L	Grab	January thru December
Hexachlorocyclo- pentadiene	Effluent Gross Value	REPORT RQL = 10	UG/L	Grab	January thru December

Surface Water WCR - Semi Annual Reporting Requirements:

Submit a Semi-Annual WCR; within twenty-five days after the end of every 6 month monitoring period beginning from the effective date of the permit (EDP).

Comments:

Grab sampling shall be conducted during dry weather.

Table III - A - 2: Surface Water WCR - Semi Annual Limits and Monitoring Requirements
PHASE: Final **PHASE Start Date:** 10/01/2016 **PHASE End Date:**

Parameter	Sample Point	Compliance Quantity	Units	Sample Type	Monitoring Period
Hexachloroethane	Effluent Gross Value	REPORT RQL = 10	UG/L	Grab	January thru December
Indeno(1,2,3-cd)-pyrene	Effluent Gross Value	REPORT RQL = 20	UG/L	Grab	January thru December
Isophorone	Effluent Gross Value	REPORT RQL = 10	UG/L	Grab	January thru December
N-nitrosodi-n-propylamine	Effluent Gross Value	REPORT RQL = 20	UG/L	Grab	January thru December
N-nitrosodimethyl-amine	Effluent Gross Value	REPORT RQL = 20	UG/L	Grab	January thru December
Nitrobenzene	Effluent Gross Value	REPORT RQL = 10	UG/L	Grab	January thru December
Phenanthrene	Effluent Gross Value	REPORT RQL = 10	UG/L	Grab	January thru December
Pyrene	Effluent Gross Value	REPORT RQL = 20	UG/L	Grab	January thru December
Benzo(ghi)perylene	Effluent Gross Value	REPORT RQL = 20	UG/L	Grab	January thru December
Benzo(a)anthracene	Effluent Gross Value	REPORT RQL = 10	UG/L	Grab	January thru December
1,2-Dichlorobenzene	Effluent Gross Value	REPORT RQL = 9	UG/L	Grab	January thru December
1,2,4-Trichloro-benzene	Effluent Gross Value	REPORT RQL = 10	UG/L	Grab	January thru December
Dibenzo(a,h)anthracene	Effluent Gross Value	REPORT RQL = 20	UG/L	Grab	January thru December
1,3-Dichlorobenzene	Effluent Gross Value	REPORT RQL = 9	UG/L	Grab	January thru December

Surface Water WCR - Semi Annual Reporting Requirements:
 Submit a Semi-Annual WCR; within twenty-five days after the end of every 6 month monitoring period beginning from the effective date of the permit (EDP).

Comments:
 Grab sampling shall be conducted during dry weather.

Table III - A - 2: Surface Water WCR - Semi Annual Limits and Monitoring Requirements
PHASE: Final **PHASE Start Date:** 10/01/2016 **PHASE End Date:**

Parameter	Sample Point	Compliance Quantity	Units	Sample Type	Monitoring Period
1,4-Dichlorobenzene	Effluent Gross Value	REPORT RQL = 20	UG/L	Grab	January thru December
2-Chloronaphthalene	Effluent Gross Value	REPORT RQL = 9.5	UG/L	Grab	January thru December
Di-n-octyl Phthalate	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
2,4-Dinitrotoluene	Effluent Gross Value	REPORT RQL = 10	UG/L	Grab	January thru December
2,6-Dinitrotoluene	Effluent Gross Value	REPORT RQL = 9.5	UG/L	Grab	January thru December
3,3'-Dichloro- benzidine	Effluent Gross Value	REPORT RQL = 60	UG/L	Grab	January thru December
4-Bromophenyl phenyl ether	Effluent Gross Value	REPORT RQL = 9.5	UG/L	Grab	January thru December
Naphthalene	Effluent Gross Value	REPORT RQL = 8	UG/L	Grab	January thru December
Bis(2-ethylhexyl) phthalate	Effluent Gross Value	REPORT RQL = 30	UG/L	Grab	January thru December
Di-n-butyl phthalate	Effluent Gross Value	REPORT RQL = 20	UG/L	Grab	January thru December
Benzidine	Effluent Gross Value	REPORT RQL = 50	UG/L	Grab	January thru December
Malathion	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
Demeton	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
Hexachlorobenzene	Effluent Gross Value	REPORT RQL = 10	UG/L	Grab	January thru December
Hexachlorobutadiene	Effluent Gross Value	REPORT RQL = 10	UG/L	Grab	January thru December

Surface Water WCR - Semi Annual Reporting Requirements:

Submit a Semi-Annual WCR: within twenty-five days after the end of every 6 month monitoring period beginning from the effective date of the permit (EDP).

Comments:

Grab sampling shall be conducted during dry weather.

Table III - A - 2: Surface Water WCR - Semi Annual Limits and Monitoring Requirements

PHASE: Final **PHASE Start Date:** 10/01/2016 **PHASE End Date:**

Parameter	Sample Point	Compliance Quantity	Units	Sample Type	Monitoring Period
Mirex	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
1,3-Dichloropropene	Effluent Gross Value	REPORT RQL = 7	UG/L	Grab	January thru December
1,2,4,5-Tetrachloro-benzene	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
N-nitrosodiethyl-amine	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
N-nitrosopyrrolidine	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
Carbon Tetrachloride	Effluent Gross Value	REPORT RQL = 6	UG/L	Grab	January thru December
1,2-Dichloroethane	Effluent Gross Value	REPORT RQL = 3	UG/L	Grab	January thru December
Bromoform	Effluent Gross Value	REPORT RQL = 8	UG/L	Grab	January thru December
Chloroform	Effluent Gross Value	REPORT RQL = 5	UG/L	Grab	January thru December
Toluene	Effluent Gross Value	REPORT RQL = 6	UG/L	Grab	January thru December
Acrolein	Effluent Gross Value	REPORT RQL = 50	UG/L	Grab	January thru December
Acrylonitrile	Effluent Gross Value	REPORT RQL = 50	UG/L	Grab	January thru December
Chlorobenzene	Effluent Gross Value	REPORT RQL = 6	UG/L	Grab	January thru December
Chlorodibromomethane	Effluent Gross Value	REPORT RQL = 6	UG/L	Grab	January thru December
Ethylbenzene	Effluent Gross Value	REPORT RQL = 6	UG/L	Grab	January thru December

Surface Water WCR - Semi Annual Reporting Requirements:

Submit a Semi-Annual WCR: within twenty-five days after the end of every 6 month monitoring period beginning from the effective date of the permit (EDP).

Comments:

Grab sampling shall be conducted during dry weather.

Table III - A - 2: Surface Water WCR - Semi Annual Limits and Monitoring Requirements
PHASE:Final **PHASE Start Date:** 10/01/2016 **PHASE End Date:**

Parameter	Sample Point	Compliance Quantity	Units	Sample Type	Monitoring Period
Methyl Bromide	Effluent Gross Value	REPORT RQL = 9	UG/L	Grab	January thru December
Methyl Chloride	Effluent Gross Value	REPORT RQL = 10	UG/L	Grab	January thru December
Methylene Chloride	Effluent Gross Value	REPORT RQL = 6	UG/L	Grab	January thru December
Tetrachloroethylene	Effluent Gross Value	REPORT RQL = 9	UG/L	Grab	January thru December
Trichlorofluoro-methane	Effluent Gross Value	REPORT RQL = 5	UG/L	Grab	January thru December
1,1-Dichloroethane	Effluent Gross Value	REPORT RQL = 23.5	UG/L	Grab	January thru December
1,1-Dichloroethylene	Effluent Gross Value	REPORT RQL = 6	UG/L	Grab	January thru December
1,1,1-Trichloro-ethane	Effluent Gross Value	REPORT RQL = 6	UG/L	Grab	January thru December
1,1,2,2-Tetrachloro-ethane	Effluent Gross Value	REPORT RQL = 10	UG/L	Grab	January thru December
1,2-Dichloropropane	Effluent Gross Value	REPORT RQL = 5	UG/L	Grab	January thru December
1,2-trans-Dichloro-ethylene	Effluent Gross Value	REPORT RQL = 4	UG/L	Grab	January thru December
2-Chloroethyl Vinyl Ether (Mixed)	Effluent Gross Value	REPORT RQL = 5	UG/L	Grab	January thru December
Bromodichloromethane	Effluent Gross Value	REPORT RQL = 5	UG/L	Grab	January thru December
Vinyl Chloride	Effluent Gross Value	REPORT RQL = 10	UG/L	Grab	January thru December

Surface Water WCR - Semi Annual Reporting Requirements:

Submit a Semi-Annual WCR: within twenty-five days after the end of every 6 month monitoring period beginning from the effective date of the permit (EDP).

Comments:

Grab sampling shall be conducted during dry weather.

Table III - A - 2: Surface Water WCR - Semi Annual Limits and Monitoring Requirements

PHASE:Final PHASE Start Date: 10/01/2016 PHASE End Date:

Parameter	Sample Point	Compliance Quantity	Units	Sample Type	Monitoring Period
Trichloroethylene	Effluent Gross Value	REPORT RQL = 5	UG/L	Grab	January thru December
Methoxychlor	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
N-Nitrosodi-n-butylamine	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
Chloroethane	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
Parachloro-m-cresol	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
Parathion	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
Phenols	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
2,4,5-Trichlorophenol	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
Delta BHC, Total (ug/l)	Effluent Gross Value	REPORT RQL = 0.02	UG/L	Grab	January thru December
Endosulfan Sulfate	Effluent Gross Value	REPORT RQL = 0.08	UG/L	Grab	January thru December
Beta Endosulfan	Effluent Gross Value	REPORT RQL = 0.04	UG/L	Grab	January thru December
Alpha Endosulfan	Effluent Gross Value	REPORT RQL = 0.02	UG/L	Grab	January thru December
Erdrin Aldehyde	Effluent Gross Value	REPORT RQL = 0.1	UG/L	Grab	January thru December
2,3,7,8-Tetrachlorodibenzo-p-dioxin	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
4,4'-DDT(p,p'-DDT)	Effluent Gross Value	REPORT RQL = 0.06	UG/L	Grab	January thru December

Surface Water WCR - Semi Annual Reporting Requirements:

Submit a Semi-Annual WCR: within twenty-five days after the end of every 6 month monitoring period beginning from the effective date of the permit (EDP).

Comments:

Grab sampling shall be conducted during dry weather.

Table III - A - 2: Surface Water WCR - Semi Annual Limits and Monitoring Requirements

PHASE: Final PHASE Start Date: 10/01/2016 PHASE End Date:

Parameter	Sample Point	Compliance Quantity	Units	Sample Type	Monitoring Period
4,4'-DDD(p,p'-DDD)	Effluent Gross Value	REPORT RQL = 0.04	UG/L	Grab	January thru December
4,4'-DDE(p,p'-DDE)	Effluent Gross Value	REPORT RQL = 0.04	UG/L	Grab	January thru December
Aldrin	Effluent Gross Value	REPORT RQL = 0.04	UG/L	Grab	January thru December
Alpha BHC	Effluent Gross Value	REPORT RQL = 0.02	UG/L	Grab	January thru December
Beta BHC	Effluent Gross Value	REPORT RQL = 0.04	UG/L	Grab	January thru December
Gamma BHC (lindane),	Effluent Gross Value	REPORT RQL = 0.03	UG/L	Grab	January thru December
Chlordane	Effluent Gross Value	REPORT RQL = 0.2	UG/L	Grab	January thru December
Dieldrin	Effluent Gross Value	REPORT RQL = 0.03	UG/L	Grab	January thru December
Endosulfans, Total (alpha and beta)	Effluent Gross Value	REPORT RQL = 0.04	UG/L	Grab	January thru December
Endrin	Effluent Gross Value	REPORT RQL = 1	UG/L	Grab	January thru December
Toxaphene	Effluent Gross Value	REPORT RQL = 1	UG/L	Grab	January thru December
Heptachlor	Effluent Gross Value	REPORT RQL = 0.02	UG/L	Grab	January thru December
Heptachlor Epoxide	Effluent Gross Value	REPORT RQL = 0.4	UG/L	Grab	January thru December
Chlorpyrifos	Effluent Gross Value	REPORT RQL = 20	UG/L	Grab	January thru December
2-Chlorophenol	Effluent Gross Value	REPORT RQL = 20	UG/L	Grab	January thru December

Surface Water WCR - Semi Annual Reporting Requirements:
 Submit a Semi-Annual WCR: within twenty-five days after the end of every 6 month monitoring period beginning from the effective date of the permit (EDP).

Comments:
 Grab sampling shall be conducted during dry weather.

Table III - A - 2: Surface Water WCR - Semi Annual Limits and Monitoring Requirements
PHASE: Final **PHASE Start Date:** 10/01/2016 **PHASE End Date:**

Parameter	Sample Point	Compliance Quantity	Units	Sample Type	Monitoring Period
2-Nitrophenol	Effluent Gross Value	REPORT RQL = 18	UG/L	Grab	January thru December
2,4-Dichlorophenol	Effluent Gross Value	REPORT RQL = 10	UG/L	Grab	January thru December
2,4-Dimethylphenol	Effluent Gross Value	REPORT RQL = 13.5	UG/L	Grab	January thru December
2,4-Dinitrophenol	Effluent Gross Value	REPORT RQL = 40	UG/L	Grab	January thru December
2,4,6-Trichloro-phenol	Effluent Gross Value	REPORT RQL = 20	UG/L	Grab	January thru December
4-Chlorophenyl phenyl ether	Effluent Gross Value	REPORT RQL = 21	UG/L	Grab	January thru December
4-Nitrophenol	Effluent Gross Value	REPORT RQL = 12	UG/L	Grab	January thru December
4,6-Dinitro-o-cresol	Effluent Gross Value	REPORT RQL = 60	UG/L	Grab	January thru December
Phenol Single Compound	Effluent Gross Value	REPORT RQL = 10	UG/L	Grab	January thru December
Pentachlorophenol	Effluent Gross Value	REPORT RQL = 30	UG/L	Grab	January thru December
Pentachlorobenzene	Effluent Gross Value	REPORT	UG/L	Grab	January thru December
Guthion	Effluent Gross Value	REPORT	UG/L	Grab	January thru December

<u>MONITORED LOCATION:</u>	<u>RECEIVING STREAM:</u>	<u>STREAM CLASSIFICATION:</u>	<u>DISCHARGE CATEGORY(IES):</u>
001A SW Outfall DSN 001A	Morses Creek	SE3(C2)	B - Industrial Wastewater

Location Description

Sampling for parameters shall be performed at the overflow from Dam #1 to Lower Morses Creek at Lat. = 40d 38' 03.3" and Long. = 74d 12' 20.8".

Contributing Waste Types

Condensate, Cooling tower blowdown, Groundwater Remediation, Non-contact Cooling Water, Process Water, Storm Water Runoff, Unprocessed water

Surface Water DMR Reporting Requirements:

Submit a Monthly DMR: Within twenty-five days after the end of every month beginning from the effective date of the permit (EDP).

Comments:

Oil & Grease can be analyzed by EPA Method 1664A or equivalent method. The permittee shall report the results under the Oil & Grease.

Net values are based on effluent gross value minus cooling water intake load and stormwater derived loading as monitored past Dam #2.

Table III - B - 1: Surface Water DMR Limits and Monitoring Requirements

PHASE: Final PHASE Start Date: 10/01/2016 PHASE End Date:

Parameter	Sample Point	Limit	Units	Limit	Units	Limit	Units	Frequency	Sample Type
Flow, In Conduit or Thru Treatment Plant	Effluent Gross Value	REPORT Monthly Average	MGD	*****		*****		Continuous	Metered
		***	Daily Maximum	***		***			
January thru December	QL	REPORT Monthly Average	MGD	*****		*****		Continuous	Calculated
	Intake From Stream	REPORT Daily Maximum	MGD	*****		*****			
Flow, In Conduit or Thru Treatment Plant	QL	REPORT Monthly Average	MGD	*****		*****		Continuous	Calculated
		***	Daily Minimum	***		***			
January thru December	Effluent Gross Value	*****	*****	6.0		*****	SU	1/Week	Grab
		***	*****	Monthly Minimum		Monthly Maximum			
January thru December	QL	*****	*****	***		***		1/Week	Grab
	Intake	*****	*****	*****		*****			
Solids, Total Suspended	QL	***	***	*****		*****		1/Week	24 Hour Composite
		***	***	*****		*****			
January thru December	QL	***	***	*****		*****		1/Week	24 Hour Composite
		***	***	*****		*****			

Surface Water DMR Reporting Requirements:

Submit a Monthly DMR: Within twenty-five days after the end of every month beginning from the effective date of the permit (EDP).
 Oil & Grease can be analyzed by EPA Method 1664A or equivalent method. The permittee shall report the results under the Oil & Grease.

Comments:

Oil & Grease can be analyzed by EPA Method 1664A or equivalent method. The permittee shall report the results under the Oil & Grease.

Net values are based on effluent gross value minus cooling water intake load and stormwater derived loading as monitored past Dam #2.

Table III - B - 1: Surface Water DMR Limits and Monitoring Requirements

Parameter	Sample Point	Limit	Units	Limit	Units	Limit	Units	Frequency	Sample Type
Solids, Total Suspended	Effluent Gross Value	*****		*****		*****		1/Week	24 Hour Composite
January thru December	QL	***		***		***		1/Week	24 Hour Composite
Solids, Total Suspended	Effluent Net Value	*****		*****		30	MG/L	1/Week	Calculated
January thru December	QL	***		***		30	MG/L	1/Week	Calculated
Oil and Grease	Intake	*****		*****		REPORT Monthly Average	MG/L	3/Week	Grab
January thru December	QL	***		***		REPORT Monthly Average	MG/L	3/Week	Grab
Oil and Grease	Effluent Gross Value	*****		*****		REPORT Monthly Average	MG/L	3/Week	Grab
January thru December	QL	***		***		REPORT Monthly Average	MG/L	3/Week	Grab
Oil and Grease	Effluent Net Value	REPORT Monthly Average	KG/DAY	*****		10	MG/L	3/Week	Calculated
January thru December	QL	***		***		10	MG/L	3/Week	Calculated
LC50 Statre 96hr Acu Mysid Bahia	Effluent Gross Value	*****		*****		REPORT Per Minimum	%EFFL	1/Quarter	Composite
January thru December	AL	***		***		50	*****	*****	
Chlorine Produced Oxidants	Effluent Gross Value	*****		*****		REPORT Monthly Average	0.2 MG/L	3/Week	Grab
January thru December	MDL	***		***		0.1	0.1		

Surface Water DMR Reporting Requirements:

Submit a Monthly DMR: Within twenty-five days after the end of every month beginning from the effective date of the permit (EDP).
 Net values are based on effluent gross value minus cooling water intake load and stormwater derived loading as monitored past Dam #2.

Comments:

Oil & Grease can be analyzed by EPA Method 1664A or equivalent method. The permittee shall report the results under the Oil & Grease.

Table III - B - 1: Surface Water DMR Limits and Monitoring Requirements

Parameter	Sample Point	Limit	Units	Limit	Units	Limit	Units	Frequency	Sample Type
Temperature, °C	Intake	*****		*****		REPORT Monthly Average	DEG.C	Continuous	Metered
	QL	***		***		***	DEG.C	Continuous	Metered
Temperature, °C	Effluent Gross Value	*****		*****		REPORT Monthly Average	35	DEG.C	Continuous
	QL	***		***		***	DEG.C	Continuous	Metered
Carbon, Tot Organic (TOC)	Intake	REPORT Monthly Average	KG/DAY	*****		REPORT Monthly Average	MG/L	3/Week	24 Hour Composite
	QL	***	REPORT Daily Maximum	***		***	DEG.C	Continuous	Metered
Carbon, Tot Organic (TOC)	Effluent Gross Value	REPORT Monthly Average	KG/DAY	*****		REPORT Monthly Average	MG/L	3/Week	24 Hour Composite
	QL	***	REPORT Daily Maximum	***		***	DEG.C	Continuous	Metered
Net Rate of Addition of Heat	Effluent Net Value	REPORT Monthly Average	6241 Daily Maximum	KG/DAY	*****	REPORT Monthly Average	MG/L	3/Week	Calculated
	QL	***	*****	***		***	DEG.C	Continuous	Calculated
Temp. Diff. between Intake and Discharge	Effluent Net Value	*****		2300 Daily Maximum	MBTU/HR	*****	*****	*****	Calculated
	QL	***		***		***	DEG.C	Continuous	Calculated

Surface Water DMR Reporting Requirements:

Submit a Monthly DMR. Within twenty-five days after the end of every month beginning from the effective date of the permit (EDP).

Comments:

Oil & Grease can be analyzed by EPA Method 1664A or equivalent method. The permittee shall report the results under the Oil & Grease.

Net values are based on effluent gross value minus cooling water intake load and stormwater derived loading as monitored past Dam #2.

Table III - B - 1: Surface Water DMR Limits and Monitoring Requirements

Parameter	Sample Point	Limit	Units	Limit	Units	Limit	Units	Frequency	Sample Type
1,2-Dichlorobenzene	Effluent Gross Value	*****	*****	*****	*****	REPORT Monthly Average	0.05 MG/L	1/Quarter	Grab
	RQL	***	***	***	***	REPORT Monthly Average	0.009 MG/L	1/Quarter	Grab
1,4-Dichlorobenzene	Effluent Gross Value	*****	*****	*****	*****	REPORT Monthly Average	0.05 MG/L	1/Quarter	Grab
	RQL	***	***	***	***	REPORT Monthly Average	0.02 MG/L	1/Month	Grab
Toluene	Effluent Gross Value	*****	*****	*****	*****	REPORT Monthly Average	0.05 MG/L	1/Quarter	Grab
	QL	***	***	***	***	REPORT Monthly Average	0.02 MG/L	1/Month	Grab
Benzene	Effluent Gross Value	*****	*****	*****	*****	REPORT Monthly Average	0.05 MG/L	1/Quarter	Grab
	RQL	***	***	***	***	REPORT Monthly Average	0.007 MG/L	1/Month	Grab
Ethylbenzene	Effluent Gross Value	*****	*****	*****	*****	REPORT Monthly Average	0.05 MG/L	1/Quarter	Grab
	RQL	***	***	***	***	REPORT Monthly Average	0.006 MG/L	1/Month	Grab

<u>MONITORED LOCATION:</u>	<u>RECEIVING STREAM:</u>	<u>STREAM CLASSIFICATION:</u>	<u>DISCHARGE CATEGORY(IES):</u>
002A SW Outfall DSN 002A	Morses Creek	SE3(C2)	B - Industrial Wastewater

Location Description

Sampling shall be performed after the last treatment step at the Parshall Flume before the final discharge into Morses Creek at DSN 002A. The final discharge location of DSN 002A into Morses Creek is located at Lat. = 40d 37' 45.3" and Long. = 74d 13' 31.4".

Contributing Waste Types

Groundwater Remediation, OCPSF process waste, Petro Ref ELG process H2O, Process Water, Storm Water Runoff

Surface Water DMR Reporting Requirements:

Submit a Monthly DMR: Within twenty-five days after the end of every month beginning from the effective date of the permit (EDP)..

Table III - C - 1: Surface Water DMR Limits and Monitoring Requirements

PHASE: Final **PHASE Start Date:** 10/01/2016 **PHASE End Date:**

Parameter	Sample Point	Limit	Units	Limit	Units	Limit	Units	Frequency	Sample Type
Flow, In Conduit or Thru Treatment Plant	Precipitation	REPORT Monthly Average	MGD	*****		*****		1/Day	Calculated
	QL	****	Daily Maximum	***		***			
January thru December	Effluent Gross Value	REPORT Monthly Average	MGD	*****		*****		Continuous	Metered
	QL	****	Daily Maximum	***		***			
Flow, In Conduit or Thru Treatment Plant	REPORT Monthly Average	KG/DAY	*****			*****			
January thru December	Effluent Gross Value	REPORT Monthly Average	KG/DAY	*****		*****		1/Week	24 Hour Composite
	QL	****	Daily Maximum	***		***			
BOD, 5-Day (20 oC)	REPORT Monthly Average	REPORT Monthly Average	MGL						
	QL	****	Daily Maximum	***		***			
January thru December	Effl. Adjusted Value	1085 Monthly Average	KG/DAY	*****		*****		1/Week	Calculated
	QL	****	Daily Maximum	***		***			
BOD, 5-Day (20 oC)	Effl. Adjusted Value	2088 Monthly Average	KG/DAY	*****		*****			
	QL	****	Daily Maximum	***		***			
January thru December									

Surface Water DMR Reporting Requirements:

Submit a Monthly DMR: Within twenty-five days after the end of every month beginning from the effective date of the permit (EDP).

Table III - C - 1: Surface Water DMR Limits and Monitoring Requirements**PHASE: Final PHASE Start Date: 10/01/2016 PHASE End Date:**

Parameter	Sample Point	Limit	Units	Limit	Units	Limit	Units	Frequency	Sample Type
BOD, 5-Day (20 oC)	Calculated Adjust.	REPORT Monthly Average ***	KG/DAY Daily Maximum ***	*****	*****	*****	*****	1/Week	Calculated
January thru December	QL	***	***	***	***	***	***		
pH	Effluent Gross Value	*****	*****	6.0	*****	9.0	SU	1/Week	Grab
January thru December	QL	***	***	*****	Monthly Minimum	*****	*****		
Solids, Total Suspended	Effluent Gross Value	REPORT Monthly Average ***	KG/DAY Daily Maximum ***	*****	*****	*****	*****	1/Week	24 Hour Composite
January thru December	QL	***	***	*****	*****	*****	*****		
Solids, Total Suspended	Effl. Adjusted Value	954 Monthly Average ***	1843 Daily Maximum ***	KG/DAY	*****	KG/DAY	*****	1/Week	Calculated
January thru December	QL	***	***	*****	*****	*****	*****		
Solids, Total Suspended	Calculated Adjust.	REPORT Monthly Average ***	REPORT Daily Maximum ***	KG/DAY	*****	KG/DAY	*****	1/Week	Calculated
January thru December	QL	***	***	*****	*****	*****	*****		
Oil and Grease	Effluent Gross Value	REPORT Monthly Average ***	REPORT Daily Maximum ***	*****	*****	10 Monthly Average ***	15 Daily Maximum ***	MGL	3/Week
January thru December	QL	***	***	*****	*****	*****	*****		Grab
Oil and Grease	Effl. Adjusted Value	298 Monthly Average ***	558 Daily Maximum ***	KG/DAY	*****	*****	*****	3/Week	Calculated
January thru December	QL	***	***	*****	*****	*****	*****		

Surface Water DMR Reporting Requirements:

Submit a Monthly DMR: Within twenty-five days after the end of every month beginning from the effective date of the permit (EDP)..

Table III - C - 1: Surface Water DMR Limits and Monitoring Requirements

Parameter	Sample Point	Limit	Units	Limit	Units	Limit	Units	Frequency	Sample Type
Oil and Grease	Calculated Adjust.	REPORT Daily Average	KG/DAY	*****		*****		3/Week	Calculated
January thru December	QL	***		***		***			
Nitrogen, Ammonia Total (as N)	Effluent Gross Value	525 Monthly Average	KG/DAY	*****		REPORT Monthly Average	MG/L	1/Week	24 Hour Composite
January thru December	QL	***		***		REPORT Daily Maximum			
LC50 Staite 96hr Acu Mysid Bahia	Effluent Gross Value	*****		*****		REPORT Per Minimum	%EFFL	1/Quarter	Composite
January thru December	AL	***		***		50			
Carbon, Tot Organic (TOC)	Effluent Gross Value	REPORT Daily Average	KG/DAY	*****		REPORT Monthly Average	MG/L	3/Week	24 Hour Composite
January thru December	QL	***		***		***			
Carbon, Tot Organic (TOC)	Effl. Adjusted Value	2388 Monthly Average	KG/DAY	*****		*****		3/Week	Calculated
January thru December	QL	***		***		***			
Carbon, Tot Organic (TOC)	Calculated Adjust.	REPORT Daily Average	KG/DAY	*****		*****		3/Week	Calculated
January thru December	QL	***		***		***			
Sulfide, Total (as S)	Effluent Gross Value	4.9 Monthly Average	KG/DAY	*****		REPORT Monthly Average	MG/L	1/Week	24 Hour Composite
January thru December	QL	***		***		***			

Surface Water DMR Reporting Requirements:

Submit a Monthly DMR: Within twenty-five days after the end of every month beginning from the effective date of the permit (EDP).

Table III - C - 1: Surface Water DMR Limits and Monitoring Requirements

Parameter		Sample Point	Limit	Units	Limit	Units	Limit	Units	Frequency	Sample Type
Phenolics, Total Recoverable	Effluent Gross Value	REPORT Monthly Average	KG/DAY	*****	REPORT Daily Maximum	KG/DAY	*****	MG/L	1/Week	24 Hour Composite
January thru December	QL	***	***	***	***	***	***	REPORT Monthly Average	REPORT Daily Maximum	
Phenolics, Total Recoverable	Effl. Adjusted Value	7.6 Monthly Average	16 Daily Maximum	KG/DAY	*****	KG/DAY	*****	MG/L	1/Week	Calculated
January thru December	QL	***	***	***	***	***	***	*****	*****	
Phenolics, Total Recoverable	Calculated Adjust.	REPORT Monthly Average	REPORT Daily Maximum	KG/DAY	*****	KG/DAY	*****	MG/L	1/Week	Calculated
January thru December	QL	***	***	***	***	***	***	*****	*****	
Cyanide, Total (as CN)	Effluent Gross Value	6.8 Monthly Average	10.0 Daily Maximum	KG/DAY	*****	KG/DAY	*****	REPORT Monthly Average	REPORT Daily Maximum	24 Hour Composite
January thru December	RQL	1.74	1.74	KG/DAY	*****	KG/DAY	*****	MG/L	1/Month	
Chromium, Hexavalent (as Crf)	Effluent Gross Value	REPORT Monthly Average	REPORT Daily Maximum	KG/DAY	*****	KG/DAY	*****	REPORT Monthly Average	REPORT Daily Maximum	24 Hour Composite
January thru December	QL	***	***	KG/DAY	*****	KG/DAY	*****	MG/L	1/Month	
Chromium, Hexavalent (as Cr)	Effl. Adjusted Value	0.7 Monthly Average	1.4 Daily Maximum	KG/DAY	*****	KG/DAY	*****	*****	*****	Calculated
January thru December	QL	***	***	KG/DAY	*****	KG/DAY	*****	*****	*****	
Chromium, Hexavalent (as Cr)	Calculated Adjust.	REPORT Monthly Average	REPORT Daily Maximum	KG/DAY	*****	KG/DAY	*****	MG/L	1/Month	Calculated
January thru December	QL	***	***	KG/DAY	*****	KG/DAY	*****	*****	*****	

Surface Water DMR Reporting Requirements:

Submit a Monthly DMR: Within twenty-five days after the end of every month beginning from the effective date of the permit (EDP).

Table III - C - 1: Surface Water DMR Limits and Monitoring Requirements**PHASE: Final PHASE Start Date: 10/01/2016 PHASE End Date:**

Parameter	Sample Point	Limit	Units	Limit	Units	Limit	Units	Frequency	Sample Type
Chromium, Total (as Cr)	Effluent Gross Value	REPORT Daily Maximum	KG/DAY	*****	REPORT Monthly Average	REPORT Daily Maximum	MGL	1/Month	24 Hour Composite
January thru December	RQL	0.44	0.44	***	0.01	0.01	0.01		
Chromium, Total (as Cr)	Effl. Adjusted Value	11.9 Monthly Average	32.6 Daily Maximum	KG/DAY	*****	*****	*****	1/Month	Calculated
January thru December	RQL	0.44	0.44	***	***	***	***		
Chromium, Total (as Cr)	Calculated Adjust.	REPORT Monthly Average	REPORT Daily Maximum	KG/DAY	*****	*****	*****	1/Month	Calculated
January thru December	RQL	0.44	0.44	***	***	***	***		
Copper, Total (as Cu)	Effluent Gross Value	6.8 Monthly Average	14.7 Daily Maximum	KG/DAY	*****	REPORT Monthly Average	REPORT Daily Maximum	MGL	1/Month
Lead, Total (as Pb)	RQL	0.44	0.44	***	***	0.01	0.01	0.01	24 Hour Composite
Nickel, Total (as Ni)	Effluent Gross Value	17.1 Monthly Average	26.4 Daily Maximum	KG/DAY	*****	REPORT Monthly Average	REPORT Daily Maximum	MGL	1/Month
January thru December	RQL	0.44	0.44	***	0.01	0.01	0.01		
Zinc, Total (as Zn)	Effluent Gross Value	6.5 Monthly Average	12.9 Daily Maximum	KG/DAY	*****	REPORT Monthly Average	REPORT Daily Maximum	MGL	1/Month
January thru December	RQL	1.31	1.31	***	0.03	0.03	0.03		24 Hour Composite

Surface Water DMR Reporting Requirements:

Submit a Monthly DMR: Within twenty-five days after the end of every month beginning from the effective date of the permit (EDP).

Table III - C - 1: Surface Water DMR Limits and Monitoring Requirements

Parameter		Sample Point	Limit	Units	Limit	Limit	Units	Frequency	Sample Type
Acenaphthylene	Effluent Gross Value	1.0 Monthly Average	2.6 Daily Maximum	KG/DAY	*****	*****	*****	1/Quarter	24 Hour Composite
	RQL	0.44	0.44		***	***	***		
Acenaphthene	Effluent Gross Value	1.0 Monthly Average	2.6 Daily Maximum	KG/DAY	*****	*****	*****	1/Quarter	24 Hour Composite
	RQL	0.41	0.41		***	***	***		
Anthracene	Effluent Gross Value	1.0 Monthly Average	2.6 Daily Maximum	KG/DAY	*****	*****	*****	1/Quarter	24 Hour Composite
	RQL	0.44	0.44		***	***	***		
Benzo(k)fluoranthene	Effluent Gross Value	1.0 Monthly Average	2.6 Daily Maximum	KG/DAY	*****	*****	*****	1/Quarter	24 Hour Composite
	RQL	0.87	0.87		***	***	***		
Benzo(a)pyrene	Effluent Gross Value	1.0 Monthly Average	2.7 Daily Maximum	KG/DAY	*****	*****	*****	1/Quarter	24 Hour Composite
	RQL	0.87	0.87		***	***	***		
Chrysene	Effluent Gross Value	1.0 Monthly Average	2.6 Daily Maximum	KG/DAY	*****	*****	*****	1/Quarter	24 Hour Composite
	RQL	0.87	0.87		***	***	***		
Diethyl phthalate	Effluent Gross Value	3.5 Monthly Average	8.8 Daily Maximum	KG/DAY	*****	*****	*****	1/Quarter	24 Hour Composite
	RQL	0.44	0.44		***	***	***		

Surface Water DMR Reporting Requirements:

Submit a Monthly DMR: Within twenty-five days after the end of every month beginning from the effective date of the permit (EDP)..

Table III - C - 1: Surface Water DMR Limits and Monitoring Requirements**PHASE: Final PHASE Start Date: 10/01/2016 PHASE End Date:**

Parameter	Sample Point	Limit	Units	Limit	Units	Limit	Units	Frequency	Sample Type
Dimethyl phthalate	Effluent Gross Value	0.8	2.0 Daily Maximum	KG/DAY	*****	*****	*****	1/Quarter	24 Hour Composite
January thru December	RQL	0.44	0.44		***	***	***		
Fluoranthene	Effluent Gross Value	1.1	3.0 Daily Maximum	KG/DAY	*****	*****	*****	1/Quarter	24 Hour Composite
January thru December	RQL	0.44	0.44		***	***	***		
Fluorene	Effluent Gross Value	1.0	2.6 Daily Maximum	KG/DAY	*****	*****	*****	1/Quarter	24 Hour Composite
January thru December	RQL	0.44	0.44		***	***	***		
Hexachloroethane	Effluent Gross Value	0.9	2.4 Daily Maximum	KG/DAY	*****	*****	*****	1/Quarter	24 Hour Composite
January thru December	RQL	0.44	0.44		***	***	***		
Nitrobenzene	Effluent Gross Value	1.2	3.0 Daily Maximum	KG/DAY	*****	*****	*****	1/Quarter	24 Hour Composite
January thru December	RQL	0.44	0.44		***	***	***		
Phenanthrene	Effluent Gross Value	1.0	2.6 Daily Maximum	KG/DAY	*****	*****	*****	1/Quarter	24 Hour Composite
January thru December	RQL	0.44	0.44		***	***	***		
Pyrene	Effluent Gross Value	1.1	2.9 Daily Maximum	KG/DAY	*****	*****	*****	1/Quarter	24 Hour Composite
January thru December	RQL	0.87	0.87		***	***	***		

Surface Water DMR Reporting Requirements:

Submit a Monthly DMR: Within twenty-five days after the end of every month beginning from the effective date of the permit (EDP)..

Table III - C - 1: Surface Water DMR Limits and Monitoring Requirements**PHASE Final PHASE Start Date: 10/01/2016 PHASE End Date:**

Parameter	Sample Point	Limit	Units	Limit	Units	Limit	Units	Frequency	Sample Type
Benz(a)anthracene	Effluent Gross Value	1.0	2.6 Daily Maximum	KG/DAY	*****	*****	*****	1/Quarter	24 Hour Composite
January thru December	RQL	0.44	0.44		***	***	***		
1,2-Dichlorobenzene	Effluent Gross Value	3.4	7.1 Daily Maximum	KG/DAY	*****	*****	*****	1/Quarter	Grab
January thru December	RQL	0.39	0.39		***	***	***		
1,2,4-Trichlorobenzene	Effluent Gross Value	3.0	6.1 Daily Maximum	KG/DAY	*****	*****	*****	1/Quarter	24 Hour Composite
January thru December	RQL	0.44	0.44		***	***	***		
1,3-Dichlorobenzene	Effluent Gross Value	1.3	1.9 Daily Maximum	KG/DAY	*****	*****	*****	1/Quarter	Grab
January thru December	RQL	0.39	0.39		***	***	***		
1,4-Dichlorobenzene	Effluent Gross Value	0.7	1.2 Daily Maximum	KG/DAY	*****	*****	*****	1/Quarter	Grab
January thru December	RQL	0.87	0.87		***	***	***		
2,4-Dinitrotoluene	Effluent Gross Value	4.9	12.4 Daily Maximum	KG/DAY	*****	*****	*****	1/Quarter	24 Hour Composite
January thru December	RQL	0.44	0.44		***	***	***		
2,6-Dinitrotoluene	Effluent Gross Value	11.1	27.9 Daily Maximum	KG/DAY	*****	*****	*****	1/Quarter	24 Hour Composite
January thru December	RQL	0.41	0.41		***	***	***		

Surface Water DMR Reporting Requirements:

Submit a Monthly DMR: Within twenty-five days after the end of every month beginning from the effective date of the permit (EDP)..

Table III - C - 1: Surface Water DMR Limits and Monitoring Requirements
PHASE: Final **PHASE Start Date:** 10/01/2016 **PHASE End Date:**

Parameter	Sample Point	Limit	Units	Limit	Units	Limit	Units	Frequency	Sample Type
Naphthalene	Effluent Gross Value	1.0	2.6 Daily Maximum	KG/DAY	*****	*****	*****	1/Quarter	24 Hour Composite
	Monthly Average	0.35	0.35		***	***	***		
January thru December	RQL			KG/DAY	*****	*****	*****	1/Quarter	24 Hour Composite
	Effluent Gross Value	4.5	12.1 Daily Maximum		*****	*****	*****		
Bis(2-ethylhexyl) phthalate	Monthly Average	0.35	0.35		***	***	***		
	RQL			KG/DAY	*****	*****	*****		
January thru December	RQL	1.31	1.31		***	***	***		
	Effluent Gross Value	1.2	2.5 Daily Maximum	KG/DAY	*****	*****	*****		
Di-n-butyl phthalate	Monthly Average	0.87	0.87		***	***	***		
	RQL			KG/DAY	*****	*****	*****		
January thru December	RQL	0.7	1.2 Daily Maximum		***	***	***		
	Effluent Gross Value	0.7	1.2 Daily Maximum	KG/DAY	*****	*****	*****		
Hexachlorobenzene	Monthly Average	0.87	0.87		***	***	***		
	RQL			KG/DAY	*****	*****	*****		
January thru December	RQL	0.44	0.44		***	***	***		
	Effluent Gross Value	0.9	2.1 Daily Maximum	KG/DAY	*****	*****	*****		
January thru December	RQL	0.44	0.44		***	***	***		
	Effluent Gross Value	1.3	1.9 Daily Maximum	KG/DAY	*****	*****	*****		
January thru December	RQL	0.30	0.30		***	***	***		
	Effluent Gross Value	1.0	2.7 Daily Maximum	KG/DAY	*****	*****	*****		
January thru December	QL	***	***		***	***	***		

Surface Water DMR Reporting Requirements:
 Submit a Monthly DMR: Within twenty-five days after the end of every month beginning from the effective date of the permit (EDP).

Table III - C - 1: Surface Water DMR Limits and Monitoring Requirements

PHASE: Final		PHASE Start Date: 10/01/2016		PHASE End Date:	
Parameter	Sample Point	Limit	Units	Limit	Units
Carbon Tetrachloride	Effluent Gross Value	0.8	1.7 Daily Maximum	KG/DAY	*****
	Monthly Average	0.26	0.26	***	*****
January thru December	RQL	0.26		***	***
	Effluent Gross Value	3.0	9.2 Daily Maximum	KG/DAY	*****
1,2-Dichloroethane	Monthly Average	0.13	0.13	***	*****
	RQL	0.13		***	***
Chloroform	Effluent Gross Value	0.9	2.0 Daily Maximum	KG/DAY	*****
	Monthly Average	0.22	0.22	***	*****
January thru December	RQL	0.22		***	***
	Effluent Gross Value	1.1	3.5 Daily Maximum	KG/DAY	*****
Toluene	Monthly Average	0.26	0.26	***	*****
	RQL	0.26		***	***
January thru December	Effluent Gross Value	1.6	5.9 Daily Maximum	KG/DAY	*****
	Monthly Average	0.30	0.30	***	*****
Benzene	RQL	0.30		***	***
	Effluent Gross Value	4.2	10.5 Daily Maximum	KG/DAY	*****
Acrylonitrile	Monthly Average	2.18	2.18	***	*****
	RQL	2.18		***	***
January thru December	Effluent Gross Value	0.7	1.2 Daily Maximum	KG/DAY	*****
	Monthly Average	0.26	0.26	***	*****
Chlorobenzene	RQL	0.26		***	***
	Effluent Gross Value	1.2	1.2 Daily Maximum	KG/DAY	*****
January thru December	Monthly Average	0.26	0.26	***	***
	RQL	0.26		***	***

Surface Water DMR Reporting Requirements:

Submit a Monthly DMR: Within twenty-five days after the end of every month beginning from the effective date of the permit (EDP).

Table III - C - 1: Surface Water DMR Limits and Monitoring Requirements

PHASE: Final PHASE Start Date: 10/01/2016 PHASE End Date:

Parameter	Sample Point	Limit	Units	Limit	Units	Limit	Units	Frequency	Sample Type
Ethylbenzene	Effluent Gross Value	1.4	KG/DAY	4.7	KG/DAY	*****	*****	1/Quarter	Grab
	Monthly Average	Daily Maximum		0.26		***	***		
January thru December	RQL	0.26				***	***		
	Effluent Gross Value	3.7	KG/DAY	8.3	KG/DAY	*****	*****	1/Quarter	Grab
Methyl Chloride	Monthly Average	Daily Maximum		0.44		***	***		
	RQL	0.44				***	***		
January thru December	Effluent Gross Value	1.7	KG/DAY	3.9	KG/DAY	*****	*****	1/Quarter	Grab
	Monthly Average	Daily Maximum		0.26		***	***		
Methylene Chloride	RQL	0.26				***	***		
	Effluent Gross Value	1.0	KG/DAY	2.4	KG/DAY	*****	*****		
January thru December	Monthly Average	Daily Maximum		0.39		***	***		
	RQL	0.39				***	***		
Tetrachloroethylene	Effluent Gross Value	1.0	KG/DAY	2.6	KG/DAY	*****	*****	1/Quarter	Grab
	Monthly Average	Daily Maximum		0.39		***	***		
January thru December	RQL	0.39				***	***		
	Effluent Gross Value	1.0	KG/DAY	2.6	KG/DAY	*****	*****		
1,1-Dichloroethane	Monthly Average	Daily Maximum		1.02		***	***		
	RQL	1.02				***	***		
January thru December	Effluent Gross Value	0.7	KG/DAY	1.1	KG/DAY	*****	*****	1/Quarter	Grab
	Monthly Average	Daily Maximum		0.26		**	**		
1,1-Dichloroethylene	RQL	0.26				**	**		
	Effluent Gross Value	0.9	KG/DAY	2.4	KG/DAY	*****	*****	1/Quarter	Grab
January thru December	Monthly Average	Daily Maximum		0.26		**	**		
	RQL	0.26				**	**		

Surface Water DMR Reporting Requirements:

Submit a Monthly DMR: Within twenty-five days after the end of every month beginning from the effective date of the permit (EDP)..

Table III - C - 1: Surface Water DMR Limits and Monitoring Requirements**PHASE: Final PHASE Start Date: 10/01/2016 PHASE End Date:**

Parameter	Sample Point	Limit	Units	Limit	Units	Limit	Units	Frequency	Sample Type
1,1,2-Trichloro-ethane	Effluent Gross Value	0.9	2.4 Daily Maximum		KG/DAY	*****	*****	1/Quarter	Grab
	RQL	0.26	0.26			***	***		
1,2-Dichloropropane	Effluent Gross Value	6.7	10 Daily Maximum		KG/DAY	*****	*****	1/Quarter	Grab
	RQL	0.22	0.22			***	***		
1,2-trans-Dichloro-ethylene	Effluent Gross Value	0.9	2.4 Daily Maximum		KG/DAY	*****	*****	1/Quarter	Grab
	RQL	0.17	0.17			***	***		
Vinyl Chloride	Effluent Gross Value	4.5	11.7 Daily Maximum		KG/DAY	*****	*****	1/Quarter	Grab
	RQL	0.44	0.44			***	***		
Trichloroethylene	Effluent Gross Value	0.9	2.4 Daily Maximum		KG/DAY	*****	*****	1/Quarter	Grab
	RQL	0.22	0.22			***	***		
Chloroethane	Effluent Gross Value	4.5	11.7 Daily Maximum		KG/DAY	*****	*****	1/Quarter	Grab
	QL	***	***			***	***		
2-Chlorophenol	Effluent Gross Value	1.3	4.3 Daily Maximum		KG/DAY	*****	*****	1/Quarter	24 Hour Composite
	RQL	0.87	0.87			***	***		

Surface Water DMR Reporting Requirements:

Submit a Monthly DMR: Within twenty-five days after the end of every month beginning from the effective date of the permit (EDP)..

Table III - C - 1: Surface Water DMR Limits and Monitoring Requirements**PHASE: Final PHASE Start Date: 10/01/2016 PHASE End Date:**

Parameter	Sample Point	Limit	Units	Limit	Units	Limit	Units	Frequency	Sample Type
2-Nitrophenol	Effluent Gross Value	1.8	3.0 Daily Maximum	KG/DAY	*****	*****	*****	1/Quarter	24 Hour Composite
January thru December	RQL	0.78	0.78		***	***	***		
2,4-Dichlorophenol	Effluent Gross Value	1.7	4.9 Daily Maximum	KG/DAY	*****	*****	*****	1/Quarter	24 Hour Composite
January thru December	RQL	0.44	0.44		***	***	***		
2,4-Dimethylphenol	Effluent Gross Value	0.8	1.6 Daily Maximum	KG/DAY	*****	*****	*****	1/Quarter	24 Hour Composite
January thru December	RQL	0.59	0.59		***	***	***		
2,4-Dinitrophenol	Effluent Gross Value	3.1	5.4 Daily Maximum	KG/DAY	*****	*****	*****	1/Quarter	24 Hour Composite
January thru December	RQL	1.74	1.74		***	***	***		
4-Nitrophenol	Effluent Gross Value	3.1	5.4 Daily Maximum	KG/DAY	*****	*****	*****	1/Quarter	24 Hour Composite
January thru December	RQL	0.52	0.52		***	***	***		
4,6-Dinitro-o-cresol	Effluent Gross Value	3.4	12.1 Daily Maximum	KG/DAY	*****	*****	*****	1/Quarter	24 Hour Composite
January thru December	RQL	2.61	2.61		***	***	***		

Surface Water DMR Reporting Requirements:

Submit a Monthly DMR: Within twenty-five days after the end of every month beginning from the effective date of the permit (EDP). .

Table III - C - 1: Surface Water DMR Limits and Monitoring Requirements**PHASE: Final PHASE Start Date: 10/01/2016 PHASE End Date:**

Parameter	Sample Point	Limit	Units	Limit	Units	Limit	Units	Frequency	Sample Type
Phenol Single Compound	Effluent Gross Value	0.7	1.1 Daily Average	KG/DAY	KG/DAY	*****	*****	1/Quarter	24 Hour Composite
January thru December	RQL	0.44	0.44			***	***		

MONITORED LOCATION:
SI8A SQAR-Filter Press

Location Description

Once every two calendar months a sludge sample shall be collected at the plate and frame filter press and analyzed pursuant to the Sludge Quality Assurance Regulations (SQAR, N.J.A.C. 7:14C).

Contributing Waste Types

Ind Residual-Other

Residuals DMR Reporting Requirements:

Submit a Bi-Monthly DMR; due 60 calendar days after the end of each calendar bi-monthly period.

Comments:

The permittee can use alternative sludge processing methods as long as the sample is collected after the last step of the sludge treatment process prior to loading for offsite transport.

Table III - D - 1: Residuals DMR Limits and Monitoring Requirements

PHASE: Final PHASE Start Date: 10/01/2016 PHASE End Date:

Parameter	Sample Point	Limit	Units	Limit	Units	Limit	Units	Frequency	Sample Type
Solids, Total	Industrial Residuals	*****	*****	*****	*****	REPORT Monthly Average	%TS	1/2 Months	Composite
January thru December	QL	***	***	***	***	REPORT Monthly Average	***		
Potassium Dry Weight	Industrial Residuals	*****	*****	*****	*****	REPORT Monthly Average	MG/KG	1/2 Months	Composite
January thru December	QL	***	***	***	***	REPORT Monthly Average	***		
Calcium Dry Weight	Industrial Residuals	*****	*****	*****	*****	REPORT Monthly Average	MG/KG	1/2 Months	Composite
January thru December	QL	***	***	***	***	REPORT Monthly Average	***		
Magnesium Dry Weight	Industrial Residuals	*****	*****	*****	*****	REPORT Monthly Average	MG/KG	1/2 Months	Composite
January thru December	QL	***	***	***	***	REPORT Monthly Average	***		

Residuals DMR Reporting Requirements:

Submit a Bi-Monthly DMR; due 60 calendar days after the end of each calendar bi-monthly period.

Comments:

The permittee can use alternative sludge processing methods as long as the sample is collected after the last step of the sludge treatment process prior to loading for offsite transport.

Table III - D - 1: Residuals DMR Limits and Monitoring Requirements

PHASE: Final PHASE Start Date: 10/01/2016 PHASE End Date:

Parameter	Sample Point	Limit	Units	Limit	Units	Limit	Units	Frequency	Sample Type
Barium, Total (as Ba)	Industrial Residuals	*****	*****	*****	MG/KG	*****	MG/KG	1/2 Months	Composite
	QL	***	***	***	REPORT Monthly Average	***	REPORT Monthly Average	1/2 Months	
Boron, Total (as B)	Industrial Residuals	*****	*****	*****	MG/KG	*****	MG/KG	1/2 Months	Composite
	QL	***	***	***	REPORT Monthly Average	***	REPORT Monthly Average	1/2 Months	
January thru December	Industrial Residuals	*****	*****	*****	MG/KG	*****	MG/KG	1/2 Months	Composite
	QL	***	***	***	REPORT Monthly Average	***	REPORT Monthly Average	1/2 Months	
Manganese, Total (as Mn)	Industrial Residuals	*****	*****	*****	MG/KG	*****	MG/KG	1/2 Months	Composite
	QL	***	***	***	REPORT Monthly Average	***	REPORT Monthly Average	1/2 Months	
January thru December	Industrial Residuals	*****	*****	*****	MG/KG	*****	MG/KG	1/2 Months	Composite
	QL	***	***	***	REPORT Monthly Average	***	REPORT Monthly Average	1/2 Months	
Vanadium, Total (as V)	Industrial Residuals	*****	*****	*****	MG/KG	*****	MG/KG	1/2 Months	Composite
	QL	***	***	***	REPORT Monthly Average	***	REPORT Monthly Average	1/2 Months	
January thru December	Industrial Residuals	*****	*****	*****	MG/KG	*****	MG/KG	1/2 Months	Composite
	QL	***	***	***	REPORT Monthly Average	***	REPORT Monthly Average	1/2 Months	
Titanium, Total (as Ti)	Industrial Residuals	*****	*****	*****	MG/KG	*****	MG/KG	1/2 Months	Composite
	QL	***	***	***	REPORT Monthly Average	***	REPORT Monthly Average	1/2 Months	
January thru December	Industrial Residuals	*****	*****	*****	MG/KG	*****	MG/KG	1/2 Months	Composite
	QL	***	***	***	REPORT Monthly Average	***	REPORT Monthly Average	1/2 Months	
Molybdenum Dry Weight	Industrial Residuals	*****	*****	*****	MG/KG	*****	MG/KG	1/2 Months	Composite
	QL	***	***	***	REPORT Monthly Average	***	REPORT Monthly Average	1/2 Months	
January thru December	Industrial Residuals	*****	*****	*****	MG/KG	*****	MG/KG	1/2 Months	Composite
	QL	***	***	***	REPORT Monthly Average	***	REPORT Monthly Average	1/2 Months	
Phosphorus Dry Weight	Industrial Residuals	*****	*****	*****	MG/KG	*****	MG/KG	1/2 Months	Composite
	QL	***	***	***	REPORT Monthly Average	***	REPORT Monthly Average	1/2 Months	

Residuals DMR Reporting Requirements:

Submit a Bi-Monthly DMR; due 60 calendar days after the end of each calendar bi-monthly period.

Comments:

The permittee can use alternative sludge processing methods as long as the sample is collected after the last step of the sludge treatment process prior to loading for offsite transport.

Table III - D - 1: Residuals DMR Limits and Monitoring Requirements

PHASE: Final **PHASE Start Date:** 10/01/2016 **PHASE End Date:**

Parameter	Sample Point	Limit	Units	Limit	Units	Limit	Units	Frequency	Sample Type
Arsenic, Dry Weight	Industrial Residuals	*****	*****	*****	MG/KG	1/2 Months			Composite
January thru December Cobalt, Total (as Co)	QL	***		****	REPORT Monthly Average	*****			
January thru December Silver, Dry Weight	QL	***		****	REPORT Monthly Average	*****			Composite
January thru December Strontium, Total (as Sr)	QL	***		****	REPORT Monthly Average	*****			Composite
January thru December Antimony, Dry Weight	QL	***		****	REPORT Monthly Average	*****			Composite
January thru December Tin, Total (as Sn)	QL	***		****	REPORT Monthly Average	*****			Composite
January thru December Aluminum, Total (as Al)	QL	***		****	REPORT Monthly Average	*****			Composite
January thru December	QL	***		****	REPORT Monthly Average	*****			

Residuals DMR Reporting Requirements:

Submit a Bi-Monthly DMR: due 60 calendar days after the end of each calendar bi-monthly period.

Comments:

The permittee can use alternative sludge processing methods as long as the sample is collected after the last step of the sludge treatment process prior to loading for offsite transport.

Table III - D - 1: Residuals DMR Limits and Monitoring Requirements

Parameter	Sample Point	Limit	Units	Limit	Units	Limit	Units	Frequency	Sample Type
Selenium, Dry Weight	Industrial Residuals	*****	*****	*****	MG/KG	REPORT Monthly Average	MG/KG	1/2 Months	Composite
January thru December	QL	***	***	***	*****	*****	*****	*****	
Thallium, Dry Weight	Industrial Residuals	*****	*****	*****	MG/KG	REPORT Monthly Average	MG/KG	1/2 Months	Composite
January thru December	QL	***	***	***	*****	*****	*****	*****	
Copper, Dry Weight	Industrial Residuals	*****	*****	*****	MG/KG	REPORT Monthly Average	MG/KG	1/2 Months	Composite
January thru December	QL	***	***	***	*****	*****	*****	*****	
Beryllium Dry Weight	Industrial Residuals	*****	*****	*****	MG/KG	REPORT Monthly Average	MG/KG	1/2 Months	Composite
January thru December	QL	***	***	***	*****	*****	*****	*****	
Cadmium, Dry Weight	Industrial Residuals	*****	*****	*****	MG/KG	REPORT Monthly Average	MG/KG	1/2 Months	Composite
January thru December	QL	***	***	***	*****	*****	*****	*****	
Zinc, Dry Weight	Industrial Residuals	*****	*****	*****	MG/KG	REPORT Monthly Average	MG/KG	1/2 Months	Composite
January thru December	QL	***	***	***	*****	*****	*****	*****	
Lead, Dry Weight	Industrial Residuals	*****	*****	*****	MG/KG	REPORT Monthly Average	MG/KG	1/2 Months	Composite
January thru December	QL	***	***	***	*****	*****	*****	*****	

Residuals DMR Reporting Requirements:

Submit a Bi-Monthly DMR; due 60 calendar days after the end of each calendar bi-monthly period.

Comments:

The permittee can use alternative sludge processing methods as long as the sample is collected after the last step of the sludge treatment process prior to loading for offsite transport.

Table III - D - 1: Residuals DMR Limits and Monitoring Requirements

Parameter	Sample Point	Limit	Units	Limit	Units	Limit	Units	Frequency	Sample Type
Nickel, Dry Weight	Industrial Residuals	*****	*****	*****	MG/KG	*****	MG/KG	1/2 Months	Composite
	QL	***	***	***	REPORT Monthly Average	***	REPORT Monthly Average	1/2 Months	
Mercury, Dry Weight	Industrial Residuals	*****	*****	*****	MG/KG	*****	MG/KG	1/2 Months	Composite
	QL	***	***	***	REPORT Monthly Average	***	REPORT Monthly Average	1/2 Months	
Chromium, Dry Weight	Industrial Residuals	*****	*****	*****	MG/KG	*****	MG/KG	1/2 Months	Composite
	QL	***	***	***	REPORT Monthly Average	***	REPORT Monthly Average	1/2 Months	
Iron, Dry Weight	Industrial Residuals	*****	*****	*****	MG/KG	*****	MG/KG	1/2 Months	Composite
	QL	***	***	***	REPORT Monthly Average	***	REPORT Monthly Average	1/2 Months	
Acenaphthylene, Dry Weight	Industrial Residuals	*****	*****	*****	MG/KG	*****	MG/KG	1/2 Months	Composite
	QL	***	***	***	REPORT Monthly Average	***	REPORT Monthly Average	1/2 Months	
Acenaphthene, Dry Weight	Industrial Residuals	*****	*****	*****	MG/KG	*****	MG/KG	1/2 Months	Composite
	QL	***	***	***	REPORT Monthly Average	***	REPORT Monthly Average	1/2 Months	
Anthracene, Dry Weight	Industrial Residuals	*****	*****	*****	MG/KG	*****	MG/KG	1/2 Months	Composite
	QL	***	***	***	REPORT Monthly Average	***	REPORT Monthly Average	1/2 Months	

Residuals DMR Reporting Requirements:

Submit a Bi-Monthly DMR; due 60 calendar days after the end of each calendar bi-monthly period.

Comments:

The permittee can use alternative sludge processing methods as long as the sample is collected after the last step of the sludge treatment process prior to loading for offsite transport.

Table III - D - 1: Residuals DMR Limits and Monitoring Requirements

Parameter	Sample Point	Limit	Units	Limit	Units	Limit	Units	Frequency	Sample Type
Benzene, Dry Weight	Industrial Residuals	*****	*****	*****	MG/KG	1/2 Months			Composite
January thru December	QL	***	***	*****	REPORT Monthly Average	*****			
				***	*****	***			
Benzo(k)fluoranthene Dry Weight	Industrial Residuals	*****	*****	*****	REPORT Monthly Average	*****			Composite
January thru December	QL	***	***	*****	*****	***	*****	1/2 Months	

Benz(a)pyrene, Dry Weight	Industrial Residuals	*****	*****	*****	REPORT Monthly Average	*****	*****		Composite
January thru December	QL	***	***	*****	*****	***	*****	1/2 Months	

Bis(2-chloroethyl) ether, Dry Wt	Industrial Residuals	*****	*****	*****	REPORT Monthly Average	*****	*****		Composite
January thru December	QL	***	***	*****	*****	***	*****	1/2 Months	

Bis(2-chloroethoxy)-methane, Dry Weight	Industrial Residuals	*****	*****	*****	REPORT Monthly Average	*****	*****		Composite
January thru December	QL	***	***	*****	*****	***	*****	1/2 Months	

Bis(2-chloroiso-propyl)-ether,Dry Wt	Industrial Residuals	*****	*****	*****	REPORT Monthly Average	*****	*****		Composite
January thru December	QL	***	***	*****	*****	***	*****	1/2 Months	

Butyl benzyl-phthalate, Dry Wt	Industrial Residuals	*****	*****	*****	REPORT Monthly Average	*****	*****		Composite
January thru December	QL	***	***	*****	*****	***	*****	1/2 Months	

Residuals DMR Reporting Requirements:

Submit a Bi-Monthly DMR; due 60 calendar days after the end of each calendar bi-monthly period.

Comments:

The permittee can use alternative sludge processing methods as long as the sample is collected after the last step of the sludge treatment process prior to loading for offsite transport.

Table III - D - 1: Residuals DMR Limits and Monitoring Requirements

Parameter	Sample Point	Limit	Units	Limit	Units	Limit	Units	Frequency	Sample Type
Chrysene Dry Weight	Industrial Residuals	*****	*****	*****	*****	REPORT Monthly Average	MG/KG	1/2 Months	Composite
	QL	****	***	***	**	**	**		
Diethyl phthalate, Dry Weight	Industrial Residuals	*****	*****	*****	*****	REPORT Monthly Average	MG/KG	1/2 Months	Composite
	QL	****	***	***	**	**	**		
Dimethyl phthalate, Dry Weight	Industrial Residuals	*****	*****	*****	*****	REPORT Monthly Average	MG/KG	1/2 Months	Composite
	QL	****	***	***	**	**	**		
1,2-Diphenyl- hydrazine, Dry Wt	Industrial Residuals	*****	*****	*****	*****	REPORT Monthly Average	MG/KG	1/2 Months	Composite
	QL	****	***	***	**	**	**		
Fluoranthene Dry Weight	Industrial Residuals	*****	*****	*****	*****	REPORT Monthly Average	MG/KG	1/2 Months	Composite
	QL	****	***	***	**	**	**		
Fluorene, Dry Weight	Industrial Residuals	*****	*****	*****	*****	REPORT Monthly Average	MG/KG	1/2 Months	Composite
	QL	****	***	***	**	**	**		
Hexachlorocyclo- pentadiene, Dry Wt	Industrial Residuals	*****	*****	*****	*****	REPORT Monthly Average	MG/KG	1/2 Months	Composite
	QL	****	***	***	**	**	**		

Residuals DMR Reporting Requirements:

Submit a Bi-Monthly DMR; due 60 calendar days after the end of each calendar bi-monthly period.

Comments:

The permittee can use alternative sludge processing methods as long as the sample is collected after the last step of the sludge treatment process prior to loading for offsite transport.

Table III - D - 1: Residuals DMR Limits and Monitoring Requirements

Parameter	Sample Point	Limit	Units	Limit	Units	Limit	Units	Frequency	Sample Type
Hexachloroethane, Dry Weight	Industrial Residuals	*****	*****	*****	MG/KG	1/2 Months			Composite
January thru December	QL	***	***	***	REPORT Monthly Average	*****			
Indeno(1,2,3-cd)-pyrene, Dry Wt	Industrial Residuals	*****	*****	*****	REPORT Monthly Average	*****			Composite
January thru December	QL	***	***	***	REPORT Monthly Average	*****			
N-nitrosodi-n-propylamine, Dry Wt	Industrial Residuals	*****	*****	*****	REPORT Monthly Average	*****			Composite
January thru December	QL	***	***	***	REPORT Monthly Average	*****			
N-nitrosodi-phenylamine, Dry Wt	Industrial Residuals	*****	*****	*****	REPORT Monthly Average	*****			Composite
January thru December	QL	***	***	***	REPORT Monthly Average	*****			
N-nitrosodi-methylamine, Dry Wt	Industrial Residuals	*****	*****	*****	REPORT Monthly Average	*****			Composite
January thru December	QL	***	***	***	REPORT Monthly Average	*****			
Naphthalene Dry Weight	Industrial Residuals	*****	*****	*****	REPORT Monthly Average	*****			Composite
January thru December	QL	***	***	***	REPORT Monthly Average	*****			
Nitrobenzene Dry Weight	Industrial Residuals	*****	*****	*****	REPORT Monthly Average	*****			Composite
January thru December	QL	***	***	***	REPORT Monthly Average	*****			

Residuals DMR Reporting Requirements:

Submit a Bi-Monthly DMR due 60 calendar days after the end of each calendar bi-monthly period.

Comments:

The permittee can use alternative sludge processing methods as long as the sample is collected after the last step of the sludge treatment process prior to loading for offsite transport.

Table III - D - 1: Residuals DMR Limits and Monitoring Requirements

Parameter	Sample Point	Limit	Units	Limit	Units	Limit	Units	Frequency	Sample Type
Phenanthrene Dry Weight	Industrial Residuals	*****	mg/kg	*****	mg/kg	REPORT Monthly Average	MG/KG	1/2 Months	Composite
	QL	***		***		***			
January thru December Pyrene, Dry Weight	Industrial Residuals	*****	mg/kg	*****	mg/kg	REPORT Monthly Average	MG/KG	1/2 Months	Composite
	QL	***		***		***			
Benz(ghi)perylene, Dry Weight	Industrial Residuals	*****	mg/kg	*****	mg/kg	REPORT Monthly Average	MG/KG	1/2 Months	Composite
	QL	***		***		***			
January thru December Benzo(a)anthracene, Dry Weight	Industrial Residuals	*****	mg/kg	*****	mg/kg	REPORT Monthly Average	MG/KG	1/2 Months	Composite
	QL	***		***		***			
1,2-Dichlorobenzene, Dry Weight	Industrial Residuals	*****	mg/kg	*****	mg/kg	REPORT Monthly Average	MG/KG	1/2 Months	Composite
	QL	***		***		***			
January thru December 1,2,4-Trichlorobenzene, Dry Wt	Industrial Residuals	*****	mg/kg	*****	mg/kg	REPORT Monthly Average	MG/KG	1/2 Months	Composite
	QL	***		***		***			
Dibenzo(a,h)anthracene, Dry Wt	Industrial Residuals	*****	mg/kg	*****	mg/kg	REPORT Monthly Average	MG/KG	1/2 Months	Composite
	QL	***		***		***			

Residuals DMR Reporting Requirements:

Submit a Bi-Monthly DMR; due 60 calendar days after the end of each calendar bi-monthly period.

Comments:

The permittee can use alternative sludge processing methods as long as the sample is collected after the last step of the sludge treatment process prior to loading for offsite transport.

Table III - D - 1: Residuals DMR Limits and Monitoring Requirements

Parameter	Sample Point	Limit	Units	Limit	Units	Limit	Units	Frequency	Sample Type
1,3-Dichlorobenzene, Dry Weight	Industrial Residuals	*****		*****		*****		MG/KG	1/2 Months
January thru December	QL	***		***		***		REPORT Monthly Average	
1,4-Dichlorobenzene, Dry Weight	Industrial Residuals	*****		*****		*****		MG/KG	1/2 Months
January thru December	QL	***		***		***		REPORT Monthly Average	
2-Choronaphthalene, Dry Weight	Industrial Residuals	*****		*****		*****		MG/KG	1/2 Months
January thru December	QL	***		***		***		REPORT Monthly Average	
Di-n-octyl Phthalate Dry Weight	Industrial Residuals	*****		*****		*****		MG/KG	1/2 Months
January thru December	QL	***		***		***		REPORT Monthly Average	
2,4-Dinitrotoluene, Dry Weight	Industrial Residuals	*****		*****		*****		MG/KG	1/2 Months
January thru December	QL	***		***		***		REPORT Monthly Average	
2,6-Dinitrotoluene, Dry Weight	Industrial Residuals	*****		*****		*****		MG/KG	1/2 Months
January thru December	QL	***		***		***		REPORT Monthly Average	
3,3'-Dichlorobenzidine, Dry Wt	Industrial Residuals	*****		*****		*****		MG/KG	1/2 Months
January thru December	QL	***		***		***		*****	Composite

Residuals DMR Reporting Requirements:

Submit a Bi-Monthly DMR; due 60 calendar days after the end of each calendar bi-monthly period.

Comments:

The permittee can use alternative sludge processing methods as long as the sample is collected after the last step of the sludge treatment process prior to loading for offsite transport.

Table III - D - 1: Residuals DMR Limits and Monitoring Requirements

Parameter	Sample Point	Limit	Units	Limit	Units	Limit	Units	Frequency	Sample Type
4-Bromophenyl phenyl ether, Dry Weight	Industrial Residuals	*****	*****	*****	MG/KG	1/2 Months			Composite
January thru December	QL	***	***	****	REPORT Monthly Average	*****			
Bis(2-ethylhexyl) phthalate, Dry Wt	Industrial Residuals	*****	*****	*****	REPORT Monthly Average	*****			
January thru December	QL	***	***	*****	REPORT Monthly Average	*****			
Di-n-butyl phthalate Dry Weight	Industrial Residuals	*****	*****	*****	REPORT Monthly Average	*****			
January thru December	QL	**	**	***	REPORT Monthly Average	*****			
Benzidine Dry Weight	Industrial Residuals	*****	*****	*****	REPORT Monthly Average	*****			
January thru December	QL	***	***	*****	REPORT Monthly Average	*****			
Hexachlorobenzene, Dry Weight	Industrial Residuals	*****	*****	*****	REPORT Monthly Average	*****			
January thru December	QL	***	***	*****	REPORT Monthly Average	*****			
Hexachlorobutadiene, Dry Weight	Industrial Residuals	*****	*****	*****	REPORT Monthly Average	*****			
January thru December	QL	***	***	*****	REPORT Monthly Average	*****			
3,4 Benzo-fluoranthene	Industrial Residuals	*****	*****	*****	REPORT Monthly Average	*****			Composite
January thru December	QL	***	***	*****	REPORT Monthly Average	*****			

Residuals DMR Reporting Requirements:

Submit a Bi-Monthly DMR: due 60 calendar days after the end of each calendar bi-monthly period.

Comments:

The permittee can use alternative sludge processing methods as long as the sample is collected after the last step of the sludge treatment process prior to loading for offsite transport.

Table III - D - 1: Residuals DMR Limits and Monitoring Requirements

Parameter	Sample Point	Limit	Units	Limit	Units	Limit	Limit	Units	Frequency	Sample Type
Ethylbenzene Dry Weight	Industrial Residuals	*****	*****	*****	*****	REPORT Monthly Average	*****	MG/KG	1/2 Months	Composite
	QL	***	***	***	***	REPORT Monthly Average	***	MG/KG	1/2 Months	Composite
January thru December Toluene, Dry Weight	Industrial Residuals	*****	*****	*****	*****	REPORT Monthly Average	*****	MG/KG	1/2 Months	Composite
	QL	***	***	***	***	REPORT Monthly Average	***	MG/KG	1/2 Months	Composite
January thru December Xylene, Dry Weight	Industrial Residuals	*****	*****	*****	*****	REPORT Monthly Average	*****	MG/KG	1/2 Months	Composite
	QL	***	***	***	***	REPORT Monthly Average	***	MG/KG	1/2 Months	Composite
January thru December Cyanide, Dry Weight	Industrial Residuals	*****	*****	*****	*****	REPORT Monthly Average	*****	MG/KG	1/2 Months	Composite
	QL	***	***	***	***	REPORT Monthly Average	***	MG/KG	1/2 Months	Composite
January thru December Isophorone Dry Weight	Industrial Residuals	*****	*****	*****	*****	REPORT Monthly Average	*****	MG/KG	1/2 Months	Composite
	QL	***	***	***	***	REPORT Monthly Average	***	MG/KG	1/2 Months	Composite
January thru December 4-Chlorophenyl phenyl ether, Dry Wt	Industrial Residuals	*****	*****	*****	*****	REPORT Monthly Average	*****	MG/KG	1/2 Months	Composite
	QL	***	***	***	***	REPORT Monthly Average	***	MG/KG	1/2 Months	Composite

Residuals WCR - Annual Reporting Requirements:

Submit an Annual WCR; due 60 calendar days after the end of each calendar year.

Comments:

The frequency of reporting for the Residuals Waste Characterization Report changes from monthly to annually at the beginning of the calendar year after the effective date of the permit.

Table III - D - 3: Residuals WCR - Annual Limits and Monitoring Requirements

PHASE: Final **PHASE Start Date:** 10/01/2016 **PHASE End Date:**

Parameter	Sample Point	Compliance Quantity	Units	Sample Type	Monitoring Period
Am Sludge Rmvd. Wet Cubic Yards	Industrial Residuals	REPORT	WCY/YR	Calculated	January thru December
Am Sludge Rmvd. Wet Metric Tons	Industrial Residuals	REPORT	WMT/YR	Calculated	January thru December
Am Sludge Rmvd. Gallons	Industrial Residuals	REPORT	GAL/YEAR	Calculated	January thru December
Total Amount of Sludge Removed	Industrial Residuals	REPORT	DMT/YR	Calculated	January thru December
Solids, Total	Industrial Residuals	REPORT	%TS	Composite	January thru December

PART IV

SPECIFIC REQUIREMENTS: NARRATIVE

Industrial Wastewater

A. MONITORING REQUIREMENTS

1. Standard Monitoring Requirements

- a. Each analysis required by this permit shall be performed by a New Jersey Certified Laboratory that is certified to perform that analysis.
- b. The Permittee shall perform all water/wastewater analyses in accordance with the analytical test procedures specified in 40 CFR 136 unless other test procedures have been approved by the Department in writing or as otherwise specified in the permit.
- c. The permittee shall utilize analytical methods that will ensure compliance with the Quantification Levels (QLs) listed in PART III. QLs include, but are not limited to, Recommended Quantification Levels (RQLs) and Method Detection Levels (MDLs). If the permittee and/or contract laboratory determines that the QLs achieved for any pollutant(s) generally will not be as sensitive as the QLs specified in PART III, the permittee must submit a justification of such to the Bureau of Surface Water Permitting. For limited parameters with no QL specified, the sample analysis shall use a detection level at least as sensitive as the effluent limit.
- d. All sampling shall be conducted in accordance with the Department's Field Sampling Procedures Manual, or an alternate method approved by the Department in writing.
- e. All monitoring shall be conducted as specified in Part III.
- f. All sample frequencies expressed in Part III are minimum requirements. Any additional samples taken consistent with the monitoring and reporting requirements contained herein shall be reported on the Monitoring Report Forms.
- g. Annual and semi-annual wastewater testing shall be conducted in a different quarter of each year so that tests are conducted in each of the four permit quarters of the permit cycle. Testing may be conducted during any month of the permit quarters.
- h. Monitoring for Wastewater Characterization Report parameters shall be conducted concurrently with the Whole Effluent Toxicity (WET) monitoring, when feasible.
- i. Any influent and effluent sampling for toxic pollutant analyses shall be collected concurrently.
- j. The permittee shall perform all residual analyses in accordance with the analytical test procedures specified in 40 CFR 503.8 and the Sludge Quality Assurance Regulations (N.J.A.C. 7:14C) unless other test procedures have been approved by the Department in writing or as otherwise specified in the permit.

Industrial Wastewater

- k. Intake flow for DSN 001A shall be measured at the salt water pump station using a calculated method.

Effluent Flow shall be measured using a flow meter for DSN 001A and DSN 002A. Flow shall be calculated for DSN 003A, DSN 004A, and DSN 005A using the calculated stormwater runoff during rain events during the monitoring period and calculated cooling water flows based on the process units in service during the monitoring period.
 - l. The net amount of heat per unit time shall be calculated by multiplying heat capacity, discharge flow, and discharge-intake temperature difference.
 - m. Net concentration limitations for DSN 001A shall be calculated by using the following formula:
$$\frac{[(\text{gross effluent concentration}) * (\text{gross effluent flow}) - (\text{intake concentration}) * (\text{intake flow})]}{[\text{gross effluent flow}]}$$
.
- The permittee is eligible for intake credit only for the Arthur Kill intake water. Any pollutants present in the Dam #2 overflow do not meet the provisions at N.J.A.C. 7:14A-13.4; therefore, the permittee can pursue an affirmative defense if a violation occurs from Dam #2 pollutant contributions.
- n. Automatic composite samplers and flow-weighted samples are preferred for both DSN 001A and DSN 002A. However, 24-hour composite samples collected at each monitoring point may be time proportioned consisting of a minimum of 6 aliquots or grab samples collected at equal time intervals (e.g., every 4 hours when 6 samples are planned to be collected).

B. RECORDKEEPING

1. Standard Recordkeeping Requirements

- a. The permittee shall retain records of all monitoring information, including 1) all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation (if applicable), 2) copies of all reports required by this NJPDES permit, 3) all data used to complete the application for a NJPDES permit, and 4) monitoring information required by the permit related to the permittee's residual use and/or disposal practices, for a period of at least 5 years, or longer as required by N.J.A.C. 7:14A-20, from the date of the sample, measurement, report, application or record.
- b. Records of monitoring information shall include 1) the date, locations, and time of sampling or measurements, 2) the individual(s) who performed the sampling or measurements, 3) the date(s) the analyses were performed, 4) the individual(s) who performed the analyses, 5) the analytical techniques or methods used, and 6) the results of such analyses.

C. REPORTING

1. Standard Reporting Requirements

- a. The permittee shall submit all required monitoring results to the Department on the forms provided to them. The Monitoring Report Forms (MRFs) may be provided to the permittee in either a paper format or in an electronic file format. Unless otherwise noted, all requirements below pertain to both paper and electronic formats.
- b. Any MRFs in paper format shall be submitted to the following addresses:

- i. NJDEP
Division of Water Quality
Bureau of Permit Management Mailcode 401-02B
P.O. Box 420
Trenton, New Jersey 08625-0420.
 - ii. (if requested by the Water Compliance and Enforcement Bureau)
NJDEP: Central Bureau of Water Compliance and Enforcement
P.O. Box 407
Trenton, New Jersey 08625-0407
 - c. Any electronic data submission shall be in accordance with the guidelines and provisions outlined in the Department's Electronic Data Interchange (EDI) agreement with the permittee. Paper copies must be available for on-site inspection by DEP personnel or provided to the DEP upon written request.
 - d. All monitoring report forms shall be certified by the highest ranking official having day-to-day managerial and operational responsibilities for the discharging facility.
 - e. The highest ranking official may delegate responsibility to certify the monitoring report forms in his or her absence. Authorizations for other individuals to sign shall be made in accordance with N.J.A.C. 7:14A-4.9(b).
 - f. Monitoring results shall be submitted in accordance with the current Discharge Monitoring Report Manual and any updates thereof.
 - g. If monitoring for a parameter is not required in a monitoring period, the permittee must report "CODE=N" for that parameter.
 - h. If there are no discharge events during an entire monitoring period, the permittee must notify the Department when submitting the monitoring results. This is accomplished by placing a check mark in the "No Discharge this monitoring period" box on the paper or electronic version of the monitoring report submittal form.
2. Contaminated Stormwater Allocation

- a. The USEPA Petroleum Refining Point Source Category Effluent Limitation Guidelines and Standards (ELGs), 40 CFR Part 419.22 (e), provide for permittees to receive an additional allocation for treating contaminated stormwater for BOD5, TOC, TSS, Oil and Grease, Phenolic Compounds, Total Chromium and Hexavalent Chromium prior to discharge to a surface waterbody. As the ELG's only establish credit for treated stormwater discharges, the permittee must route any stormwater through the treatment plant during the monitoring period, and subsequently discharge it through outfall DSN 002A, to be eligible for this credit.

The additional allocation is incorporated by using equations to calculate the reported mass discharge values considering the contribution of contaminants from the stormwater. Therefore, the permittee's discharge limits for these parameters at DSN 002A are always the same; however, credit for stormwater is applied when the permittee calculates its individual discharge amount for each parameter on its DMR. The permittee is required to monitor the stormwater flow and report this value on its monthly DMR's under the "Flow, In Conduit or thru Treatment Plant" parameter for DSN 002A where the Sample Point is specified as "Precipitation".

In the event that there is no stormwater flow routed through the treatment plant, a credit does not apply and the "Calculated Adjustment" value is zero.

- b. The allocation is calculated by using the following formula:

Mass Load For Pollutants (kg/d) =
(Stormwater Flow Rate, kgal/day) from DSN 002A x (Effluent Limit Factor for Pollutant, lb/k gal) / 2.2 lbs/kg

The effluent limit factors from 40 CFR 419.23 are summarized below:

BAT effluent limitations for contaminated runoff in English units (pounds per 1,000 gallons of flow)

Pollutant	Maximum for any 1 day	Average of daily values for 30 consecutive days shall not exceed
BOD5	0.40	0.22
TSS	0.28	0.18
TOC	0.88	0.48
Oil and Grease	0.13	0.067
Phenolic compounds (4AAP)	0.0029	0.0014
Total chromium	0.0050	0.0018
Hexavalent chromium	0.00052	0.00023
pH range (S.U.)	6.0-9.0	6.0-9.0

- c. After calculating the loading allocation value and reporting such on the DMR for DSN 002A under "Calculated Adjustment", the permittee shall subtract this loading allocation due to stormwater from the actual gross loading leaving the treatment plant that is reported on the DMR for DSN 002A under "Effluent Gross Value". This value will represent the calculated process wastewater loadings and shall be reported on the DMR form for DSN 002A under the sampling location of "Effluent Adjusted Value". In other words, the following equation should be utilized:

$$\text{Effluent Adjusted Value} = \text{Effluent Gross Value} - \text{Calculated Adjustment.}$$

D. SUBMITTALS

1. Standard Submittal Requirements

- a. The permittee shall amend the Operation & Maintenance Manual whenever there is a change in the treatment works design, construction, operations or maintenance which substantially changes the treatment works operations and maintenance procedures.

2. Dilution Studies

- a. The permittee shall determine, the critical instream waste concentration (IWC) for the discharge from the facility for outfall DSN 002A into the receiving water utilizing applicable scientific methods, including, but not limited to, plume models, and may include field verification. The following USEPA plume models are readily available from National Technical Information Service (NTIS) and are acceptable for compliance with this item:

1. PLUME 5. LINE 8. MOBEM
2. OUTPLM 6. PDS 9. PSY
3. DKHDEN 7. PDSM 10. CORMIX 1, 2 and 3
4. MERGE

CORMIX 1, 2, and 3 are available from the Center for Exposure Assessment Modeling, USEPA Region IV, Athens, Georgia. The remaining models are available from NTIS. Use of other models may not be acceptable and would require prior approval from NJDEP.

- b. Submit a Dilution Study Workplan: within 12 months from the effective date of the permit (EDP). (Activity #: DSW120001 - Effective: 10/1/2013)
- c. Submit the Dilution Study Final Report: within 36 months from the effective date of the permit (EDP). (Activity #: DSW120001 - Effective: 10/1/2013)

3. Polychlorinated Biphenyls (PCB) Monitoring for DSN 002A

- a. The permittee shall perform sampling for the 209 PCB congeners within 24 months after the effective date of the permit.
- The permittee shall perform six representative samples on the facility's main outfall, DSN 002A.
 - All samples shall be collected at least 30 days after the previous sampling event. No more than two samples shall be collected in each quarter of the year or the same quarter of the following year.
 - All samples shall be performed during periods which are representative of normal facility operations.

- iv. All sampling shall be performed using the most recent version of USEPA Method 1668, Chlorinated Biphenyl Congeners in Water, Soil, Sediment, and Tissue by HRGC/HRMS, as found at EPA 40 CFR Part 136.
 - v. Samples shall be 24-hour time-weighted composite samples at a frequency of not greater than one aliquot every hour for a nominal sample volume of 2 liters for both the sample and the field replicate.
 - vi. Submit the special report: within 30 months from the effective date of the permit (EDP). (Activity #: DSW120001 - Effective: 10/1/2013)
 - vii. The Final Report shall be submitted in electronic format on a compact disc in EXCEL format and shall include a summary report.
 - viii. Final Reports shall be submitted to: Attn:
Melisse Carasia Auriti
Bureau of Surface Water Permitting
New Jersey Department of Environmental Protection
Mailcode: 401-02B
401 East State Street,
PO Box 420, Trenton, NJ 08625-0420
- b. Frequency Reduction, Suspension, Elimination of Monitoring
 - i. If sampling demonstrates non-detectable levels in the effluent, the permittee may request a frequency reduction of the monitoring.
 - ii. If the Department determines that a PMP will be necessary for its facility, the permittee may contact the Department about the possibility of eliminating the sampling described above.
 - c. PCB Pollutant Minimization Plan (PMP) Requirement
 - i. If, based on the review of the Final Report, the Department determines that a PMP is required, the permittee shall prepare and submit a PMP to the Department by the date specified in the Department's determination letter.
 - ii. The permittee shall implement the PMP within 30 days after written notification by the Department that the PMP is complete.
 - iii. The PMP shall be developed to achieve maximum practical reduction in accordance with the PMP Technical Manual.
 - d. PCB PMP Annual Report Requirement
 - i. The permittee shall submit an annual report in accordance with the Annual Report Guidance Document every 12 months from the implementation of the PMP.
 - ii. Any revisions to the PMP as a result of the ongoing work shall be reported in the annual report.
 - iii. The annual report shall contain, at a minimum, a detailed discussion of the specific progress and actions taken by the permittee during the previous twelve month period that addresses PCB loadings and implementation of the PMP.

E. FACILITY MANAGEMENT

1. Discharge Requirements

- a. The permittee shall discharge at the location(s) specified in PART III of this permit.
- b. The permittee shall not discharge foam or cause foaming of the receiving water that: 1) Forms objectionable deposits on the receiving water, 2) Forms floating masses producing a nuisance, or 3) Interferes with a designated use of the waterbody.
- c. The permittee's discharge shall not produce objectionable color or odor in the receiving stream.
- d. The discharge shall not exhibit a visible sheen at DSN 001A and DSN 002A. If a visible sheen extends beyond the dam at DSN 001A the permittee shall notify the DEP Hotline at 1-877-WARN-DEP.
- e. When quantification levels (QL) and effluent limits are both specified for a given parameter in Part III, and the QL is less stringent than the effluent limit, effluent compliance will be determined by comparing the reported value against the QL.
- f. The Department has approved the permittee's request to use the following corrosion inhibitors, biocides, or other cooling water additives in its non-contact cooling water: sodium bromide, bleach, Clam-Trol CT-2, DTS (inert detoxicant), Bio-Trol 88P, Betz 455 Deposit Control, or similar chemical compounds due to changes in vendors or names.

Approved chemicals specifically for use in the Polypropylene and Infineum Chemical Cooling Tower water include: Phosphate based corrosion inhibitors (Trasar N-23265, N-73282, N-73286 or similar), sodium bromide (Acti-Brom N-7342, Spectrus OX1201 or similar), glutaraldehyde (N-7338 or similar), biodispersant (Spectrus BD1500 or similar), Continuum AEC3157 or similar, Spectrus NX1100 or similar, and bleach".

If the permittee decides to begin using any additional additives in the future, the permittee must notify the Bureau of Surface Water Permitting at least 180 days prior to use so that the permit may be reopened to incorporate any additional limitations deemed necessary.

2. Interstate Environmental Commission

- a. The permittee shall comply with the Interstate Environmental Commission's (IEC) "Water Quality Regulations." Although no monitoring requirements specific to the IEC are included in this permit, compliance may be determined by the IEC based on its own sampling events. IEC effluent requirements shall not be considered effluent limitations for the purpose of mandatory penalties under N.J.S.A. 58:10A-10.1.

3. Applicability of Discharge Limitations and Effective Dates

- a. Surface Water Discharge Monitoring Report (DMR) Form Requirements
 - i. The final effluent limitations and monitoring conditions contained in PART III for DSN 001A, DSN 002A, DSN 003A, DSN 004A, and DSN 005A apply for the full term of this permit action.
- b. Wastewater Characterization Report (WCR) Form Requirements
 - i. The final effluent monitoring conditions contained in PART III for DSN 003A, DSN 004A, and DSN 005A apply for the full term of this permit action.

4. Operation, Maintenance and Emergency conditions

- a. The permittee shall operate and maintain treatment works and facilities which are installed or used by the permittee to achieve compliance with the terms and conditions of this permit as specified in the Operation & Maintenance Manual.
- b. The permittee shall develop emergency procedures to ensure effective operation of the treatment works under emergency conditions in accordance with NJAC 7:14A-6.12(d).

5. Toxicity Testing Requirements - Acute Whole Effluent Toxicity - DSN 001A and DSN 002A

- a. The permittee shall conduct toxicity tests on its wastewater discharge in accordance with the provisions in this section. Such testing will determine if appropriately selected effluent concentrations adversely affect the test species.
- b. Acute toxicity tests shall be conducted using the test species and method identified in Part III of this permit.
- c. Part III of this permit contains an Action Level (AL) for acute Whole Effluent Toxicity for DSN 001A and DSN 002A. Toxicity Reduction and Implementation Requirements may be triggered based on exceedences of this Action Level. See Toxicity Reduction and Implementation Requirements section below for more details.
- d. Any test that does not meet the specifications of N.J.A.C. 7:18, laboratory certification regulations, must be repeated within 30 days of the completion of the initial test. The repeat test shall not replace subsequent testing required in Part III.
- e. The permittee shall resubmit an Acute Methodology Questionnaire within 60 days of any change in laboratory.
- f. Submit an acute whole effluent toxicity test report: within twenty-five days after the end of every quarterly monitoring period beginning from the effective date of the permit (EDP). The permittee shall submit toxicity test results on appropriate forms. (Activity #: DSW120001 - Effective: 10/1/2013)
- g. Test reports shall be submitted to:
 - i. New Jersey Department of Environmental Protection
Mailcode 401-02B
Division of Water Quality
Bureau of Surface Water Permitting
401 East State Street
P.O. Box 420
Trenton, New Jersey 08625-0420.

6. Toxicity Testing Requirements - Chronic Whole Effluent Toxicity - DSN 003A-DSN005A

- a. The permittee shall conduct toxicity tests on its wastewater discharge in accordance with the provisions in this section. Such testing will determine if appropriately selected effluent concentrations adversely affect the test species.
- b. Chronic toxicity tests shall be conducted using the test species and method identified in Part III of this permit.

- c. Any test that does not meet the specifications contained in the Department's "Chronic Toxicity Testing Specifications for Use in the NJPDES Program" document must be repeated within 30 days of the completion of the initial test. The repeat test shall not replace subsequent testing required in Part III.
- d. IC25 - Inhibition Concentration - Concentration of effluent which has an inhibitory effect on 25% of the test organisms for the monitored effect, as compared to the control (expressed as percent effluent).
- e. Test results shall be expressed as the IC25 for each test endpoint. Where a chronic toxicity testing endpoint yields IC25's from more than one test endpoint, the most sensitive endpoint will be used to evaluate effluent toxicity.
- f. Submit a Chronic Methodology Questionnaire: within 60 days from the effective date of the permit (EDP). The permittee shall resubmit after any change of laboratory occurs. (Activity #: DSW120001 - Effective: 10/1/2013)
- g. Submit a chronic whole effluent toxicity test report: within twenty-five days after the end of every 6 month monitoring period beginning from the effective date of the permit (EDP). The permittee shall submit toxicity test results on appropriate forms. (Activity #: DSW120001 - Effective: 10/1/2013)
- h. Test reports shall be submitted to:
 - i. New Jersey Department of Environmental Protection
Mailcode 401-02B
Division of Water Quality
Bureau of Surface Water Permitting
401 East State Street
P.O. Box 420
Trenton, New Jersey 08625-0420.

7. Toxicity Reduction Implementation Requirements (TRIR)

- a. The permittee shall initiate a tiered toxicity investigation if two out of six consecutive WET tests demonstrate that the effluent does not comply or will not comply with the toxicity limit or action level specified in Part III of this permit.
 - i. If the exceedence of the toxicity limit or action level is directly caused by a documented facility upset, or other unusual event which has been identified and appropriately remedied by the permittee, the toxicity test data collected during the event may be eliminated when determining the need for initiating a TRIR upon written Department approval.
- b. The permittee shall begin toxicity characterization within 30 days of the end of the monitoring period when the second toxicity test exceeds the toxicity limits or action levels in Part III. The monitoring frequency for toxicity testing shall be increased to monthly. Up to 12 additional tests may be required.
 - i. The permittee may return to the toxicity testing frequency specified in Part III if four consecutive toxicity tests conducted during the Toxicity Characterization do not exceed the toxicity limit or action level.
 - ii. If two out of any six consecutive, acceptable tests again exceed the toxicity limit or action level in Part III, the permittee shall repeat the Toxicity Reduction Implementation Requirements.

- c. The permittee shall initiate a preliminary toxicity identification (PTI) upon the third exceedence of the toxicity limit or action level specified in Part III during toxicity characterization.
 - i. The permittee may return to the monitoring frequency specified in PART III while conducting the PTI. If more frequent WET testing is performed during the PTI, the permittee shall submit all biomonitoring reports to the DEP and report the results for the most sensitive species on the DMR.
 - ii. As appropriate, the PTI shall include:
 - (1) treatment plant performance evaluation,
 - (2) pretreatment program information,
 - (3) evaluation of ammonia and chlorine produced oxidants levels and their effect on the toxicity of the discharge,
 - (4) evaluation of chemical use and processes at the facility, and
 - (5) an evaluation of incidental facility procedures such as floor washing, and chemical spill disposal which may contribute to effluent toxicity.
 - iii. If the permittee demonstrates that the cause of toxicity is the chlorine added for disinfection or the ammonia concentration in the effluent and the chlorine and/or ammonia concentrations are below the established water quality based effluent limitation for chlorine and/or ammonia, the permittee shall identify the procedures to be used in future toxicity tests to account for chlorine and/or ammonia toxicity in their preliminary toxicity identification report.
 - iv. The permittee shall submit a Preliminary Toxicity Identification Notification within 15 months of triggering TRIR. This notification shall include a determination that the permittee intends to demonstrate compliance OR plans to initiate a CTI.
- d. The permittee must demonstrate compliance with the WET limitation or action level in four consecutive WET tests to satisfy the requirements of the Toxicity Reduction Investigation Requirements. After successful completion, the permittee may return to the WET monitoring frequency specified in PART III.
- e. The permittee shall initiate a Comprehensive Toxicity Investigation (CTI) if the PTI does not identify the cause of toxicity and a demonstration of consistent compliance with the toxicity limit or action level in Part III can not be made.
 - i. The permittee shall develop a project study plan identifying the party or parties responsible for conducting the comprehensive evaluation, establish a schedule for completing the study, and a description of the technical approach to be utilized.
 - ii. If the permittee determines that the PTI has failed to demonstrate consistent compliance with the toxicity limit or action level in Part III , a Comprehensive Toxicity Investigation Workplan must be prepared and submitted within 90 days.
 - iii. The permittee shall summarize the data collected and the actions taken in CTI Quarterly Reports. The reports shall be submitted within 30 calendar days after the end of each quarter.
 - iv. The permittee shall submit a Final CTI Report 90 calendar days after the last quarterly report. The final CTI report shall include the corrective actions identified to reduce toxicity and a schedule for implementing these corrective actions.
- f. Upon receipt of written approval from the Department of the corrective action schedule, the permittee shall implement those corrective actions consistent with that schedule.

- i. The permittee shall satisfy the requirements of the Toxicity Reduction Implementation Requirements and return to the original toxicity monitoring frequency after corrective actions are implemented and the permittee demonstrates consistent compliance with the toxicity limit or action level in Part III in four consecutive toxicity tests.
- ii. If the implemented corrective measures do not result in consistent compliance with the toxicity limit or action level in Part III, the permittee shall submit a plan for resuming the CTI.
- iii. Documents regarding Toxicity Investigations shall be sent to the following:
New Jersey Department of Environmental Protection
401-02B
Division of Water Quality
Bureau of Surface Water Permitting
401 East State Street
P.O. Box 420
Trenton, New Jersey 08625-0420

F. CONDITIONS FOR MODIFICATION

1. Notification requirements

- a. The permittee may request a minor modification for a reduction in monitoring frequency for a non-limited parameter when four consecutive test results of "not detected" have occurred using the specified QL.
- b. The permittee shall notify the Department that a tag to mark the location of the outfall pipes for DSN 003A, DSN 004A, and DSN 005A have been installed consistent with N.J.A.C. 7:14A-6.2(a)9.

2. Causes for modification

- a. The Department may modify or revoke and reissue any permit to incorporate 1) any applicable effluent standard or any effluent limitation, including any effluent standards or effluent limitations to control the discharge of toxic pollutants or pollutant parameters such as acute or chronic whole effluent toxicity and chemical specific toxic parameters, 2) toxicity reduction requirements, or 3) the implementation of a TMDL or watershed management plan adopted in accordance with N.J.A.C. 7:15-7.
- b. The permittee may request a minor modification to eliminate the monitoring requirements associated with a discharge authorized by this permit when the discharge ceases due to changes at the facility.

G. Custom Requirement

1. Impingement Alternatives Analysis and Section 316(b) Determination

- a. Since the Section 316(b) final regulations are not due out until June 2013, the Department is requiring Bayway Refinery to submit an Impingement Alternatives Analysis to assess technologies to minimize impingement mortality at the Salt Water Pump Station. The purpose of this study is for Bayway to evaluate and analyze a potential alternative for reducing impingement mortality with a focus on improved screens.
- b. The Impingement Alternatives Analysis shall address the following factors at the Salt Water Pump Station:

- i. Replacement of the existing screens with Ristroph screens having a dual spraywash system (high-and-low-pressure). The screens shall have fish lifting buckets to hold the fish in water as they are lifted to the low-pressure spraywash removal system. The screen size shall be optimized to minimize impingement mortality and the wire mesh shall have a smooth face. These screens shall be operated continuously exclusive of periods of maintenance or operational requirements.
 - ii. Installation of a fish return system for the intake structure that is designed and constructed in consideration of the following factors: 1) using a fiberglass composite or a similar non-abrasive material that will be added to the full length of the interior surface trough of the fish return; 2) a material that will reduce abrasion and obstructions to fish; 3) designed to have sufficient capacity, flow volume and water level to facilitate safe return of impinged organisms to the Arthur Kill; and 4) designed so that the fish return conveyance terminus is submerged at all tidal stages on a year-round basis.
 - iii. Inclusion of scoping cost estimates for alternatives and a project implementation schedule.
- c. The permittee shall submit the Impingement Alternatives Analysis on or before EDP + 15 months to the following address:

New Jersey Department of Environmental Protection
401-02B
Division of Water Quality
Bureau of Surface Water Permitting
401 East State Street
P.O. Box 420
Trenton, New Jersey 08625-0420.

- d. Upon receipt of the Impingement Alternatives Analysis, the Department will evaluate the findings in concert with the final EPA regulations and will reopen the permit to incorporate permit conditions pursuant to N.J.A.C. 7:14A-16.4.
 - e. In consideration of the regulatory and technical information available at this time, the Department hereby determines that conduct of an Impingement Alternatives Analysis to assess the installation of modified Ristroph traveling screens as well as a fish return system at the Salt Water Pump Station constitutes best technology available based on best professional judgement in accordance with Section 316(b) of the Clean Water Act.
2. Submissions as part of any NJPDES Renewal Application-Section 316(a) Special Condition
- a. If upon renewal, the permittee wants the Section 316(a) variance to be continued, the request for the variance along with a basis for its continuance must be submitted at the time of the application for the renewal permit in accordance with 40 CFR 125.73(c). The Department's Section 316(a) Determination shall include, but not be limited to:
 - i. a review of whether the nature of the thermal discharge on the aquatic population associated with the Station have changed;
 - ii. whether the measures required under the Special Conditions have assured the protection and propagation of a balanced indigenous population;
 - iii. whether the best scientific methods to assess the effect of the permittee's cooling system have changed; and.

iv. whether the technical knowledge of stresses caused by the cooling system has changed.

3. Oil and Grease Method for DSN 001A and DSN 002A

- a. Oil & Grease is to be analyzed by the Total Petroleum Hydrocarbon (TPH) EPA Method 1664A or equivalent. The permittee shall report the TPH results under the Oil & Grease parameter on the DMRs.

4. East Side Retention Basin

- a. The East Side Retention Basin is located in a section of the refinery that includes process units. The process units that drain to the basin primarily handle butanes, propanes, butylenes and propylenes. The basin is used primarily to detain storm water, which is then pumped to the wastewater treatment plant. It is recognized that the basin's storage volume and pumping capacity are inadequate to handle very intense or heavy rainfall events.

This permit authorizes the eventual discharge from the on-site wastewater treatment plant of any waters from the East Side Retention Basin. However, this permit does not authorize the discharge of waters from the East Side Retention Basin directly to the Railroad Avenue ditch.

5. Clean Water Discharges

- a. The following discharges are authorized in this permit as they are clean in nature. Some of these discharges drain to Morses Creek and are therefore regulated at DSN 001A. Discharges are as follows:

Marine Dock Fire Fighting Water: test water to ensure system operability, maintenance, inspection, or testing

SWPS Suction Water: siphon used during pump start up and priming of pumps

SWPS Intake Wash Water: intake water used to wash off debris that collects on intake screens

SWPS Emergency Sump Pump Water: used if there was a large upset to prevent flooding in the SWPS building

SWPS Pump P-11 Condenser Water: jet condenser used to improve efficiency of the steam turbine

Marine Dock and SWPS Steam Condensate: condensate discharges from miscellaneous steam traps

Polypropylene Plant Boiler Blowdown

Polypropylene Plant Pellet Separator Water

Hydrogen Plant Condensate/Brine from Reverse Osmosis Treatment

Cooling Water Strainers at Inlet of Process Units

Morses Creek Pump Stations: for firefighting water pressure maintenance

Ponded Water: pumped from adjacent cemetary property

Potable Water: pumped to on-site resevoirs to prevent freezing of city water lines and to control levels during dry periods

Reservoir Water: water taken and returned to resevoirs for firefighting testing.

6. Temperature at DSN 001A

- a. "Temperature Difference between Intake and Discharge" as found in Part III is defined as the discharge temperature as measured at DSN 001A minus intake temperature as measured at the Arthur Kill cooling water intake. The difference is a daily average of 24 hours.

MBTU/hr means the temperature difference times the weight of water in pounds discharged in one hour. The rate is a daily average of 24 hours.

7. Use of Rhodamine WT Dye

- a. The permittee is authorized to perform periodic testing using Rhodamine WT Dye as part of dilution studies, sewer investigations, and flow meter calibrations. Use of this dye is conditional on compliance with the following requirements:.

- i. Provide written notification to the Chief, Bureau of Surface Water Permitting and the Bureau of Water Compliance and Enforcement prior to the use of Rhodamine WT dye. This notification shall include the expected dates of the discharge, the expected concentration of Rhodamine WT dye in the effluent, the expected outfall that will see the dye, and the anticipated concentration of dye to be used.
- ii. Provide oral notice to the Bureau of Water Compliance and Enforcement at least 24 hours prior to commencing the use of Rhodamine WT dye by calling the DEP Hotline at 1-877-WARN-DEP. The NJDEP Hotline shall be notified in advance if the testing could result in dye reaching Dam #1 and the Arthur Kill. If dye is detected downstream of Dam #1, the Hotline shall (again) be immediately notified.
- iii. Within thirty (30) days of completion of using Rhodamine WT dye, provide written notification to the Chief, Bureau of Surface Water Permitting and Bureau of Water Compliance and Enforcement. This notice shall include the actual dates of the discharge, the actual concentration of Rhodamine WT dye in the effluent, the outfall that discharged the dye, and the actual concentration of dye used.